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ABSTRACT

This Study examined the relationships between certain teacher characteristics and changes manifested by gifted elementary students in convergent and divergent thinking areas. It was assumed that teachers' intellectual ability, personality and personal experience were the most influential variables affecting pupil growth. Conclusions showed that (1) teacher characteristics do influence significantly the growth of fourth, fifth, and sixth grade self-contained classes with a mean I.Q. of 120 or better; (2) no single teacher characteristic was significantly related to all areas of convergent and divergent growth in the children's scores than were the other variables studied; (4) in general, the teacher who appeared to have most significantly influenced growth in the divergent areas were emotionally mature, energetic, persistent, friendly, and without a crystallized compulsive pattern for attaining social approval; and (5) in general, the teacher who appeared to have most significantly influenced growth in the convergent area was submissive, dependent, cheerful, alert, not a staunch guardian of morals and manners with a natural warmth and liking for people. (TA)

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FINAL REPORT

Project No. S-348
Contract No. OE-5-10-399

THE RELATIONSHIPS BETWEEN CERTAIN TEACHER CHARACTERISTICS AND ACHIEVEMENT AND CREATIVITY OF GIFTED ELEMENTARY SCHOOL STUDENTS

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TEACHER CHARACTERISTICS AND ACHIEVEMENT AND
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INTRODUCTION

Problem

The past decade has witnessed an immense growth in the concern educators and lay public alike have shown for that segment of the population described as gifted children. Public schools are developing special programs and classes to foster the development of bright youngsters. Universities are offering an increasing number of courses related to understanding and educating these children. A recent survey by the Association for the Gifted verifies the fact that universities are involved in establishing a sequential training program for teachers of gifted students. (12) Martinson indicates that more than 50,000 specially trained teachers are needed for work with these children. (13)

In the past a variety of criteria for selecting teachers of the gifted have been used. Attributes such as emotional stability, giftedness, and teaching experience in regular classes are recommended in the literature (1, 13). School personnel frequently think that any good teacher should be able to teach a gifted class with competence (9). Some school systems choose their "best" teachers. Some rotate their teachers so that all of them have an opportunity to work with the bright group every few years. However, there is no empirical data to support or refute the various bases of teacher selection.

It is the purpose of this study to examine the relationships between certain teacher characteristics and changes manifested by gifted elementary students in convergent and divergent thinking areas. It is assumed by the investigator that teachers' intellectual ability, personality and personal experience are those characteristics that are the most influential variables affecting pupil growth. It is expected that the results of the present investigation will provide information that will be useful in the future selection of teachers of gifted elementary school children.

Background

In a survey of the literature no research was discovered regarding the qualifications necessary for teachers of gifted elementary school children. Lists of descriptive words and phrases are so general, it would be impossible to define them specifically and have educators agree. Examples of such qualifications are: "Creativeness. . . . Psychological maturity. . . .

Skill in human relations..... Freedom from excessive sensitivity to criticism..... Understanding and acceptance of children..... Broad experience in teaching children..... Knowledge of child development..... " (1)

Ward states that "teachers of intellectually superior children and youth should be among those of the greatest general excellence to be found in the profession." (15). Among the criteria essential for teachers of gifted youngsters according to Cutts (6) are great vitality, a sense of humor and stability. French (11) in comparing teachers of the gifted to other teachers suggests that the teachers of the gifted should be more intelligent, more flexible, more creative, better informed in a wide variety of areas, and desirous of teaching gifted students. Wirick (16) has a slightly different emphasis when he proposes that teachers of the gifted should be as bright as the most able in at least one field, secure working with the gifted, a missionary-type, a successful teacher, and specially trained in the area of the gifted.

According to Davis (7) and Freehill (10), one of the reasons for absence of special preparation and special certification requirements for teachers of the gifted is the lack of agreement about the qualifications these teachers should possess. Martinson (13) mentions the importance of establishing criteria to identify students to be trained to teach the gifted. In the December, 1959 Review of Educational Research, (8), Fliegler and Bish pointed out the need for research in this area. In the February, 1963 Review of Educational Research, (2) Birch and Reynolds state that the research needs discussed in the 1959 issue had not been satisfied, but instead intensified.

In summary, there is much in the literature describing the attributes that can logically be assumed as necessary for teachers working with gifted classes. However, there is a dearth of empirical data proving specifically what is important and desirable.

Objectives

This study investigates the relationships between certain teacher characteristics and change manifested by gifted elementary students in convergent and divergent thinking areas.

For the purposes of this study the 16 Personality Factor Questionnaire (4) will be assumed to reflect teacher personality.

It is assumed that an adequate measure of the children's convergent production will be derived from a standardized achievement test. The assumption is also made that divergent production is most adequately assessed by the use of fluency, flexibility, originality and elaboration scores obtained from a test of creative thinking.

The specific questions to be answered are:

- (1) What effect does teacher intelligence, personality, and personal information (e. g. age, training, experience, marital status) have on the quantity and quality of change exhibited by classes of gifted elementary students in the area of convergent production?
- (2) What effect does teacher intelligence, personality, and personal information have on the quantity and quality of change exhibited by classes of gifted elementary students in the areas of divergent production?

METHODS

This study was designed to determine the effect certain teacher characteristics have upon their classes of elementary gifted children in intermediate grades. An investigation was made into the relationship between the described teacher characteristics and the class growth in six convergent production areas (reading, writing, mathematics, science, social studies, listening) and four divergent production areas (fluency, flexibility, originality, elaboration).

The subjects in this study were to be the students and teachers of 50 self-contained intermediate, elementary gifted classes (grades four, five, and six), located throughout the State of North Carolina. Of the original 50 classes 37 actually participated in the study. The loss of 13 classes was due to:

1. The inability of classes to cooperate because of extensive testing programs being carried out in their area at the time of this study.
2. Administrative rearrangements that resulted in classes no longer being self-contained groups of high intellectual level.

In order to assure homogeneity of the classes the California Test of Mental Maturity (14) was administered to all children involved. Those classes below the mean I.Q. of 120 were not included. Language, non-language, and total scores were employed for making these decisions.

Of the 37 classes remaining in the study 13 were eliminated because they did not meet this standard. One was eliminated because the data returned were incomplete. Two classes failed to assess the students in the divergent areas. Consequently these classes were involved only in the convergent areas.

The gifted classes in North Carolina are under the direction of the local school systems and the teachers for these classes are selected by the local systems. It may, therefore, be assumed that teacher selection criteria are not uniform. Consequently, it is logical to expect that variation will be found among the teachers in respect to the characteristics being studied.

The characteristics of the teachers were assessed by measures of:

- (1) Intelligence
Adult form of the California Test of Mental Maturity (14).

(2) Personality Factors

The 16 Personality Factor Questionnaire (4).

(3) Personal Information

A questionnaire involving age, sex, training, experience, marital status, number of children, etc. (Appendix A).

The growth of the gifted classes were assessed by measures of:

(1) Convergent Production

Level 4, alternate forms of the Sequential Test of Educational Progress (5).

(2) Divergent Production

Minnesota Test of Creative Thinking: Abbreviated Form VII (3).

The instruments measuring convergent and divergent production were administered by pre- and post-testing of the children. All pre-testing took place during October of 1964 and all post-testing during May of 1965.

The relationship between the changes in class scores in each of the ten production areas and the following variables were investigated:

A. 16 measures of teacher personality

1. Aloof vs. Sociable
2. Boorish vs. Cultured
3. Emotional Immaturity vs. Emotional Stability
4. Submission vs. Dominance
5. Serious vs. Happy-go-lucky
6. Lack of Rigid Internal Standards vs. Super Ego Strength
7. Timid vs. Adventurous
8. Tough-minded vs. Sensitive
9. Accepting vs. Suspecting
10. Conventional vs. Unconventional
11. Naive vs. Sophisticated
12. Confident vs. Insecure
13. Conservatism vs. Radicalism
14. Group Dependency vs. Self-Sufficiency
15. Uncontrolled vs. Controlled
16. Phlegmatic vs. Excitable

B. 14 items of teacher background

1. Verbal I. Q.
2. Non verbal I. Q.
3. Age
4. Social-economic level of family
5. Social-economic level of teacher
6. Marital status
7. Presence or absence of children
8. Years of formal education
9. Years of teaching (excluding gifted)
10. Years of teaching gifted
11. Credit hours in courses concerning gifted
12. Grade level (4, 5, or 6)
13. Number of students in the class
14. Rural or urban location

C. 4 items identifying the composition of each of the classes.

1. Sex
2. Age
3. Verbal I. Q.
4. Non-verbal I. Q.

A series of multiple regression equations was calculated to assess the relationship between the changes in class convergent and divergent production scores and the three sets of variables just enumerated. A total of 30 equations were developed, as follows:

- a) An equation for each production change versus teacher personality items (10 equations).
- b) An equation for each production change versus teacher background items (10 equations).
- c) An equation for each production change versus class items (10 equations).

The equation model used is: $Y=B_1+B_2 \cdot X(2)+B_3 \cdot X(3)+B_4 \cdot X(4)+B_5 \cdot X(5)+B_6 \cdot X(6)+B_7 \cdot X(7)+B_8 \cdot X(8)+B_9 \cdot X(9)+B_{10} \cdot X(10)+B_{11} \cdot X(11)+B_{12} \cdot X(12)+B_{13} \cdot X(13)+B_{14} \cdot X(14)+B_{15} \cdot X(15)+B_{16} \cdot X(16)+B_{17} \cdot X(17)$. Y is the change in class score. B is the regression coefficient. X is the variable.

All items could not be grouped together in a single equation. The 23 classes and the total of 34 teacher-and-student-related class items were more than could be simultaneously calculated. Thus the related items were grouped into the three sets described above for the initial regression calculations.

For each measure of change, all items that proved significant at the one percent level (Student's t of 2.58 or higher) were grouped together for the development of a final regression analysis, leading to an influence profile for each change.

RESULTS

The mean and standard deviation of each of the 34 variables involving the 23 teachers and their classes are reported in Tables 1, 2, and 3. Since there were 23 classes studied in the convergent areas and 21 classes studied in the divergent areas, there is a slight difference in the means and standard deviations of the two groups. The means reported on the first 30 variables are weighted averages that take into account the number of children studied in each teacher's class. The remaining four variables concern individual student's, not classes, so their means are not weighted. (For all individual student data, see Appendix D.)

The variables described in Table 1 are on a 10-point scale. For each pair of those variables the one at the zero end of the scale is named first.

In Table 2, variable 4 was judged on a four-point scale in which a "1" was arbitrarily set to indicate least skill and a rating of "4" to indicate most skill. The occupations judged to be within each rating are as follows:

1. Farmer, letter carrier
2. Photographer, clerk, salesman
3. Business owner, business manager, minister
4. Company president

Similarly, in Table 2, variable 5 was judged on a five-point scale as follows:

1. under \$5000
2. \$5000 to \$10,000
3. \$10,000 to \$15,000
4. \$15,000 to \$20,000
5. over \$20,000

The other variables in Table 2 were quantified as follows:

Variable 6: single=0, married=1

Variable 7: childless=0, children=1

Variable 14: rural=0, urban=1

Variables 1, 2, 3, 8, 9, 10, 11, 12, 13: actual numbers

Table 1
Means and Standard Deviations of the Teacher Personality Items

| Variable | Average for Divergent Areas | Standard Deviation for Divergent Areas | Average for Convergent Areas | Standard Deviation for Convergent Areas |
|--|-----------------------------|--|------------------------------|---|
| 1. Aloof vs. Sociable | 6.28 | 1.69 | 6.17 | 1.66 |
| 2. Boorish vs. Cultured | 5.75 | 1.68 | 5.74 | 1.61 |
| 3. Emotional Immaturity vs. Emotional Stability | 6.00 | 1.61 | 6.10 | 1.68 |
| 4. Submission vs. Dominance | 5.01 | 1.95 | 5.29 | 2.12 |
| 5. Serious vs. Happy-go-lucky | 4.67 | 1.50 | 4.77 | 1.50 |
| 6. Lack of Rigid Internal Standards vs. Super Ego Strength | 6.82 | 1.44 | 6.85 | 1.49 |
| 7. Timid vs. Adventurous | 6.05 | 1.84 | 6.17 | 1.81 |
| 8. Tough-minded vs. Sensitive | 6.77 | 1.98 | 6.80 | 1.99 |
| 9. Accepting vs. Suspecting | 3.89 | 1.63 | 3.76 | 1.68 |
| 10. Conventional vs. Unconventional | 5.41 | 1.18 | 5.60 | 1.36 |
| 11. Naive vs. Sophisticated | 5.91 | 1.80 | 6.13 | 1.88 |
| 12. Confident vs. Insecure | 4.88 | 1.61 | 4.67 | 1.74 |
| 13. Conservatism vs. Radicalism | 5.22 | 1.43 | 5.46 | 1.46 |
| 14. Group Dependency vs. Self-Sufficiency | 5.34 | 1.47 | 5.48 | 1.48 |
| 15. Uncontrolled vs. Controlled | 7.23 | 1.79 | 7.13 | 1.75 |
| 16. Phlegmatic vs. Excitable | 4.89 | 1.66 | 4.81 | 1.64 |

Table 2
Means and Standard Deviations of Teacher Background Information

| Variable | Average for Divergent Areas | Standard Deviation for Divergent Areas | Average for Convergent Areas | Standard Deviation for Convergent Areas |
|---|-----------------------------|--|------------------------------|---|
| 1. Verbal I. Q. | 102.28 | 10.90 | 101.68 | 11.94 |
| 2. Non-verbal I. Q. | 85.01 | 18.13 | 84.77 | 17.75 |
| 3. Age | 41.22 | 11.54 | 40.63 | 11.30 |
| 4. Socio-economic level judged by father's occupation | 2.07 | 0.99 | 2.15 | 0.99 |
| 5. Yearly income of teacher (and husband if married) | 2.68 | 0.97 | 2.67 | 0.94 |
| 6. Marital status | 0.96 | 0.20 | 0.92 | 0.28 |
| 7. Teacher is childless or has children | 0.59 | 0.49 | 0.54 | 0.50 |
| 8. Years of formal education | 16.54 | 0.58 | 16.54 | 0.57 |
| 9. Years of teaching (excluding the gifted) | 9.98 | 6.60 | 9.64 | 6.42 |
| 10. Years of teaching the gifted | 2.28 | 2.02 | 2.14 | 2.00 |
| 11. Credit hours in courses concerning gifted | 0.48 | 0.79 | 0.48 | 0.77 |
| 12. Grade presently teaching | 5.11 | 0.82 | 5.15 | 0.81 |
| 13. Number of students in the class | 25.77 | 3.82 | 25.56 | 3.77 |
| 14. Rural or urban location | 0.67 | 0.47 | 0.70 | 0.46 |

In Table 3, variable 1, sex, was quantified as follows:

:male=0, female=1

Tables 4 and 5 present those relationships significant at the one percent level ($t = 2.58$) between the above teacher and pupil variables and the pupil's change in scores on the four divergent measures and six convergent measures over the course of one school year. Both t and b values are indicated (b predicts the unit change in test score for each point of change in the variable). The t values for all 340 relationships evaluated are found in Appendix B. Among the 340 relationships studied, 77 proved significant at the one percent level.

Those 77 variables that proved significant, and are represented in Tables 4 and 5, were again examined in a regression analysis. The results of the final regression analysis are shown in Table 6. Those scores significant at the one percent level are underscored. All data concerning the final regression can be found in Appendix C.

Table 3
Means and Standard Deviations of Student Characteristics

| Variable | Average for Divergent Areas | Standard Deviation for Divergent Areas | Average for Convergent Areas | Standard Deviation for Convergent Areas |
|---------------------|-----------------------------|--|------------------------------|---|
| 1. Sex | 0.53 | 0.50 | 0.51 | 0.50 |
| 2. Age (in months) | 126.44 | 10.25 | 126.87 | 10.12 |
| 3. Verbal I. Q. | 124.58 | 7.12 | 125.33 | 7.75 |
| 4. Non-verbal I. Q. | 121.99 | 9.67 | 122.74 | 10.44 |

Table 4
Significant t Scores and the Corresponding b Values for the Divergent Measures

| Variable | Fluency b | Flexibility b | Originality b | Elaboration b | |
|--|--------------|------------------|------------------|------------------|--------|
| | t | t | t | t | |
| 1. Aloof vs. Sociable | | 1.08 | 3.30 | 2.50 | 4.05 |
| 2. Emotional Immaturity vs. Emotional Stability | 3.73 | 3.47 | 2.12 | 3.79 | 3.47 |
| 3. Lack of Rigid Internal Standards vs. Super Ego Strength | 5.18 | 4.04 | 2.58 | 3.86 | 4.05 |
| 4. Timid vs. Adventurous | -3.20 | -3.94 | | | -2.75 |
| 5. Tough-minded vs. Sensitive | | | -1.34 | -3.83 | -1.98 |
| 6. Accepting vs. Suspecting | | | | -3.76 | -2.68 |
| 7. Conventional vs. Unconventional | | | 2.33 | 3.72 | |
| 8. Naive vs. Sophisticated | | | 0.99 | 2.69 | |
| 9. Group Dependency vs. Self-Sufficiency | | | 3.35 | 4.90 | |
| 10. Uncontrolled vs. Controlled | -3.80 | -4.24 | -2.31 | -4.95 | -2.84 |
| 11. Verbal I. Q. | 0.62 | 3.82 | 0.33 | 3.87 | 0.66 |
| 12. Non-verbal I. Q. | -0.26 | -3.13 | -0.11 | -2.64 | 4.17 |
| 13. Years of formal education | | | | | -17.42 |
| 14. Credit hours in courses con- cerning gifted | 8.94 | 2.88 | 4.43 | 2.71 | 10.06 |
| 15. Grade presently teaching | | | | | -7.92 |
| 16. Number of students in class | 5.08 | 3.82 | 1.97 | 2.81 | -1.58 |
| 17. Sex | | | | | -2.78 |

Table 5
Significant t Scores and the Corresponding b Values for the Divergent Measures

| Variable | b | t | Math | Science | Social Studies | Reading | Listening | Writing |
|--|-------|-------|-------|---------|----------------|---------|-----------|---------|
| 1. Aloof vs. Sociable | 1.44 | 2.94 | b | t | b | t | b | t |
| 2. Emotional Immaturity vs. Emotional Stability | -1.33 | -3.68 | | | | 1.71 | 3.58 | |
| 3. Submission vs. Dominance | | | -1.82 | -4.25 | -1.28 | -4.53 | -1.17 | -2.79 |
| 4. Serious vs. Happy-go-lucky | 2.31 | 3.69 | 1.38 | 3.49 | 2.43 | 4.19 | | |
| 5. Lack of Rigid Internal Standards vs. Super-Ego Strength | -2.59 | -4.65 | -1.11 | -3.02 | | | | |
| 6. Timid vs. Adventurous | | | | | 1.15 | 2.89 | 1.79 | 3.99 |
| 7. Tough-minded vs. Sensitive | | | | | | | 1.54 | 4.92 |
| 8. Accepting vs. Suspecting | | | 1.89 | 3.53 | | | | |
| 9. Conventional vs. Unconventional | | | -1.99 | -5.47 | -1.31 | -3.45 | -2.28 | -6.44 |
| 10. Naive vs. Sophisticated | | | | | | | 1.64 | 4.03 |
| 11. Phlegmatic vs. Excitable | -1.60 | -5.30 | | | 0.36 | 3.64 | | |
| 12. Verbal I.Q. | | | 0.40 | 3.69 | | | -0.38 | -4.64 |
| 13. Age | | | | | | | | |
| 14. Socio-economic level judged by fathers' occupation | -1.45 | -2.97 | | | | | | |
| 15. Yearly income of teacher (and husband if married) | | | | | 2.48 | 2.62 | 2.52 | 2.63 |
| 16. Teacher is childless or has children | | | | | | | 4.31 | 2.58 |
| 17. Years of teaching (excluding the gifted) | | | | | | -0.40 | -3.01 | |
| 18. Years of teaching the gifted | | | | | 2.19 | 3.09 | 1.55 | 2.81 |
| 19. Credit hours in courses concerning gifted | | | | | | | 5.15 | 3.08 |
| 20. Grade presently teaching | -1.81 | -3.65 | | | | | -2.25 | -3.02 |
| 21. Number of students in the class | -0.29 | -3.06 | | | 0.60 | 3.32 | -1.55 | -3.20 |
| 22. Rural or urban location | -0.10 | -3.79 | | | | -0.09 | -2.61 | -0.23 |
| 23. Age | | | | | | | | |

Table 6
Influence Profile of the 77 Significant Variables

| Variable | Fluency | Plausibility | Originality | Elaboration | Math | Science | Social Studies | Reading | Language | Writing |
|--|---------|--------------|-------------|-------------|-------|---------|----------------|---------|----------|---------|
| 1. Aged vs. Sociable | b | a | b | a | a | a | a | a | a | a |
| 2. Emotional Unaware vs. Emotional | 1.73 | 2.76 | 0.94 | 2.54 | 0.94 | 1.70 | 1.59 | 2.15 | 0.87 | 2.40 |
| 3. Subordination vs. Domination | | | | | | | | | | |
| 4. Serious vs. Happy-go-lucky | | | | | | | | | | |
| 5. Lack of Rigid Internal Standards | 1.94 | 2.81 | 0.36 | 1.67 | 1.07 | 1.32 | 4.07 | 2.77 | | |
| 6. Super-Ego Strength | | | | | | | | | | |
| 7. Timid vs. Adventurous | -1.25 | -2.11 | | | -2.13 | -2.77 | -2.90 | -2.34 | | |
| 8. Tough-minded vs. Sensitive | | | | | | | | | | |
| 9. Accepting vs. Suspecting | | | | | | | | | | |
| 10. Conventional vs. Unconventional | | | | | | | | | | |
| 11. Native vs. Sophisticated | -0.90 | -1.55 | | | | | | | | |
| 12. Group Dependency vs. Self-Sufficiency | | | | | | | | | | |
| 13. Uncentred vs. Centred | -1.21 | -2.18 | -1.38 | -2.02 | -1.31 | -2.01 | -2.02 | -2.61 | -0.91 | -2.21 |
| 14. Plutocratic vs. Meritistic | | | | | | | | | | |
| 15. Verbal I.Q. | 0.19 | 1.65 | 0.16 | 2.24 | 0.16 | 1.03 | | | | |
| 16. Non-verbal I.Q. | -0.08 | -1.21 | -0.11 | -2.51 | | | | | | |
| 17. Socio-economic level judged by teacher's acceptance | | | | | | | | | | |
| 18. Yearly income of teacher (and husband if married) | | | | | | | | | | |
| 19. Teacher is childless or has children | | | | | | | | | | |
| 20. Years of formal education | | | | | | | | | | |
| 21. Years of teaching (excluding the gifted) | | | | | | | | | | |
| 22. Credit hours in courses concerning gifted | | | | | | | | | | |
| 23. Grade presently teaching | 1.03 | 1.97 | 0.67 | 1.15 | 1.45 | 2.40 | -1.77 | -0.65 | -0.25 | -0.29 |
| 24. Number of students in class | | | | | | | | | | |
| 25. Rural or urban location | | | | | | | | | | |
| 26. Sex | 4.94 | 2.12 | 1.70 | 2.44 | | | | | | |
| 27. Age | | | | | | | | | | |

Discussion

This study has shown that teacher characteristics do significantly influence the growth of fourth, fifth, and sixth grade self-contained classes with a mean I. Q. of 120 or better. However, there was no single teacher characteristic that was significantly related to all areas of convergent and divergent growth in the students. Characteristics of the students themselves proved important only in relation to fluency. In this area girls were shown to be more fluent than boys. In addition, the number of children in a class significantly affected the class growth in mathematics.

In general, teacher personality characteristics were found to be more effective in producing change in the children's scores than were the teachers' I. Q., age, socio-economic level, marital status, family status (presence of children), years of formal education, years of teaching (excluding the gifted), years of teaching the gifted, credit hours in courses concerning the gifted, and present grade level taught. Nevertheless, the verbal I. Q. of the teacher was significantly related both to the convergent area of reading and to the divergent area of flexibility. Also the yearly income of the teacher (and husband if married) and the number of credit hours in courses concerning the gifted were significantly related to the convergent area of writing.

Four teacher personality traits were not found to be significantly related to the children's scores. Those four traits are: boorish vs. cultured, confident vs. insecure, conservatism vs. radicalism, phlegmatic vs. excitable.

On the other hand, 12 personality items correlated significantly with 28 measures of convergent and divergent production. No personality item, however, significantly related to all areas of convergent production. The two teacher personality items described as (1) happy-go-lucky, enthusiastic, expressive, alert and (2) naive, unpretentious, gregarious, spontaneous significantly related to the three convergent areas of science, social studies, and reading. Two other teacher personality items were significantly related both to social studies and to science. They were (1) submissive, mild, dependent, conventional and (2) lack of rigid internal standards, casual, relaxed, demanding. Science was also significantly influenced by the teacher personality items described as (1) unconventional, interested in art, imaginative, frivolous and (2) sociable, good natured, kind, adaptable. Reading was significantly related to the personality trait described as sensitive, subjective, demanding, artistically fastidious. The writing measure significantly related to the personality trait described as emotional immaturity, lacking in frustration tolerance, changeable, worrying.

The convergent area of listening was the only area where no personality trait proved significant. This test was read aloud to the children. Therefore they had to depend on their memory for the answers to the questions. Consequently it would appear that no personality trait studied produced a change in the memory ability of the children.

In the divergent measures there again was no one teacher personality characteristic significant in all four production areas. Fluency, originality, and elaboration were significantly influenced by the personality trait described as super-ego strength, conscientious, persistent, responsible. Fluency and originality were significantly related to the personality characteristic described as emotionally stable, ego strength, mature, placid. Flexibility and originality were influenced significantly by the teacher characteristic described as accepting, outgoing, understanding, permissive. Flexibility and elaboration were significantly related to the personality trait described as poor self-sentiment formation, uncontrolled, lax. The personality traits described as (1) self-sufficient, resourceful, (2) unconventional, interested in art, imaginative, frivolous, and (3) tough-minded, realistic, self-reliant, practical were significantly related to flexibility. Originality was significantly influenced by the personality trait described as shy, self-contained, conscientious, careful.

Although the personality traits described would seem to overlap, the correlations reported (4) among these factors are sufficiently low to indicate that they are discreet traits. In order to understand the fine distinctions among these personality factors, the reader is urged to examine their description in the test handbook (4).

The intercorrelations found among the measures of divergent thinking (3) titled fluency, flexibility, and originality range from .48 to .75, which indicate that there is a considerable amount of overlap in the skills being measured. On the other hand, the fourth measure of divergent thinking, elaboration, has a low correlation with the other measures of divergent thinking.

No intercorrelations were available for the convergent areas. Logically, however, the ability to read and understand would tend to influence all the convergent areas except mathematical computation.

Opposite personality traits were not found to be significantly related to measures within the convergent area or to measures within the divergent area. On the other hand, the opposites of four personality traits significantly influenced convergent and divergent measures.

The convergent area of mathematics was significantly influenced by the personality trait described as emotional immaturity, lacking in frustration tolerance, changeable, worrying, while the divergent areas of fluency and originality were significantly influenced by the opposite of this personality trait which is described as emotionally stable, ego strength, mature, placid. The convergent areas of science and social studies were significantly influenced by the personality trait described as lack of rigid internal standards, casual, relaxed, demanding, while the opposite of this described as super-ego strength, conscientious, persistent, responsible was significantly related to the divergent measures of fluency, originality and elaboration. The convergent area of writing was significantly influenced by the personality trait described as adventurous, active, responsive, impulsive, while the opposite of this trait described as shy, self-contained, conscientious, careful significantly influenced the divergent area of originality. Finally, the convergent area of reading was significantly related to the personality trait described as sensitive, subjective, demanding, artistically fastidious, while the opposite of this trait described as tough-minded, realistic, self-reliant, practical significantly influenced the divergent area of flexibility.

One personality trait significantly influenced a convergent and divergent measure. Flexibility and science were both affected by the personality trait described as unconventional, interested in art, imaginative, frivolous.

Those t values that approached a significant relationship between teacher personality traits and the divergent measures were: sociable and flexibility; emotional stability and flexibility, elaboration; timid and fluency, elaboration; sophisticated and flexibility; uncontrolled and fluency, originality.

Those t values that approached a significant relationship between teacher personality traits and the convergent measures were: sociable and reading; phlegmatic and mathematics.

Condensing the observations on the data of this project, in general the following personality traits of the teacher appear to have been most significant to growth in the divergent area: emotional stability, super-ego strength, accepting, and uncontrolled. Such a teacher would be emotionally mature (that is, not given to emotional outburst), energetic, persistent, friendly, and without a crystallized pattern for attaining social approval toward which one feels impelled to strive.

Continuing the condensation of observations, in general the following teacher personality traits appear to have been most significant to growth in the convergent area: submission, happy-go-lucky,

lack of rigid internal standards, and naive. Such a teacher would be submissive, dependent, cheerful, alert, not a staunch guardian of morals and manners, and would have a natural warmth and liking for people.

CONCLUSIONS AND IMPLICATIONS

There were two specific questions to be answered by this study. They were:

1. What effect does teacher intelligence, personality, and personal information (e.g. age, sex, training, experience, marital status, number of children) have on the quantity and quality of change exhibited by classes of gifted elementary students in the area of convergent production?
2. What effect does teacher intelligence, personality, and personal information have on the quantity and quality of change exhibited by classes of gifted elementary students in the area of divergent production?

In answer to those questions, the personality characteristics of teachers were found to be significantly related to the divergent and convergent growth of children in the fourth, fifth, and sixth grade classes for the gifted. Concerning the characteristics of the students themselves, girls did better in the divergent area of fluency than did boys, and the number of children in a class significantly affected the class growth in mathematics. Moreover, in general, the teachers' personality traits were found to be more effective in producing change in the children's scores than were the teachers I.Q., age, socio-economic level, marital status, family status (presence of children), years of formal education, years of teaching (excluding the gifted), and present grade level taught. Nevertheless, the verbal I.Q. of the teacher was significantly related both to the convergent area of reading and to the divergent areas of flexibility. Also the yearly income of the teacher (and husband if married) and the number of credit hours in courses concerning the gifted were significantly related to the convergent area of writing.

No single teacher personality trait was significantly related to all areas of convergent and divergent growth in the students. In general, however, there appeared to be a cluster of teacher personality traits most conducive to growth in the divergent area and another cluster most conducive to growth in the convergent area.

The following personality characteristics of the teacher appear to have been most significantly related to growth in the divergent area: emotional stability, super-ego strength, accepting, and uncontrolled. Such a teacher would be emotionally mature (that is, not given to emotional outburst), energetic, persistent, friendly, and without a crystallized pattern for attaining social approval toward which one feels impelled to strive.

The following teacher personality characteristics appear to have been most significantly related to growth in the convergent area: submission, happy-go-lucky, lack of rigid internal standards, and naive. Such a teacher would be submissive, dependent, cheerful, alert, not a staunch guardian of morals and manners, and would have a natural warmth and liking for people.

Because different teacher personality traits affect the convergent and the divergent areas, the possibility of having two teachers, one for each area, should be seriously considered. In this way a teacher could best utilize her personality attributes to further growth in the divergent or in the convergent area.

Another implication of this study is that gifted children should work with a teacher who is proficient in the divergent area and one who is proficient in the convergent area, because in that way a student not making as much progress in the divergent area, for example, would have the opportunity for optimal growth in that area as well as in the area in which he already demonstrates adequacy. Thus, grouping the children according to their needs rather than by their reading level or I.Q. alone, as is often the case, should be more fruitful.

Still another implications of this study concerns the fact that the teacher I.Q. seems not to be a primary factor in the change of the students. However, the I.Q. range of the teachers in this study was limited. Therefore, another study with a wider range of teacher I.Q. would seem essential before the effect of teacher intelligence is assumed to be of relatively little consequence.

Lastly, this study has implication for the selection of teachers for gifted classes. Certainly there is indication that teacher selection needs to be based primarily on an assessment of teacher personality traits and secondarily her personal background. To follow such a policy (rather than an administrative decision to rotate teachers among classes for the slow learners, normal, and gifted, or to select the "best" teacher) should also prove more fruitful to the consistent growth of the children.

SUMMARY

This study investigated the relationships between the teacher characteristics of intelligence, personality, and personal information (e.g. age, sex, training, experience, marital status, etc.) and change manifested by gifted elementary students in convergent and divergent thinking areas. The characteristics of the teachers were assessed by measures of intelligence, personality factors, and a personal information questionnaire. The growth of the gifted classes were assessed by six measures of convergent production and four measures of divergent production.

The tests measuring convergent and divergent production were administered by pre- and post-testing of the children. The pre-testing took place at the beginning of the 1964-1965 school year and post-testing at the conclusion of that academic year.

A series of multiple regression equations were calculated to assess the relationship between the changes in the 23 classes in the convergent and divergent production scores and the 34 teacher, class, and student variables. For each measure of change, all items that proved significant at the one percent level (Student's *t* of 2.58 or higher) were grouped together for the development of a final regression analysis, leading to an influence profile for each change.

This study has shown that teacher characteristics do significantly influence the growth of fourth, fifth, and sixth grade self-contained classes with a mean I.Q. of 120 or better. However, there was no single teacher characteristic that was significantly related to all areas of convergent and divergent growth in the students.

Teacher personality characteristics were found to be more effective in producing change in the children's scores than were the other variables studied. In general, the teacher who appeared to have most significantly influenced growth in the divergent areas was emotionally mature (that is, not given to emotional outburst), energetic, persistent, friendly, and without a crystallized pattern for attaining social approval toward which one feels impelled to strive. In general, the teacher who appeared to have most significantly influenced growth in the convergent area was submissive, dependent, cheerful, alert, not a staunch guardian of morals and manners, and would have a natural warmth and liking for people.

Three items of teacher personal information did prove significant although not to the same degree as teacher personality traits. Verbal I.Q. was significantly related to growth in reading and in flexibility;

yearly income of the teacher and number of semester hours in course-work concerning the gifted both were significantly related to growth in writing.

Two class characteristics proved significant, although again not to the same degree as teacher personality traits. The number of students per class significantly affected growth in mathematics, and girls were more fluent than boys.

The implications of this study are: (1) gifted children should be exposed both to teachers whose personality traits were best suited to teach the divergent area and to those best suited to teach the convergent area; (2) the effect of teacher I.Q. cannot be fully evaluated until a broader range of I.Q. than existed in the project is studied; (3) teacher selection should be based primarily on personal information rather than on existing practices such as teacher rotation, etc.

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APPENDIX A

PERSONAL DATA QUESTIONNAIRE (CONFIDENTIAL)

Directions: Fill in requested information or check appropriate blanks as completely as possible

| | | | | | |
|-------------------|------------|--------------|----------|-----------------------|------------------|
| 1. Name | _____ | Last | First | Initial | |
| 2. Home Address | _____ | Street | City | | |
| | _____ | County | Tel. No. | | |
| 3. School | _____ | Name | Street | | |
| | _____ | City | County | Tel. No. | |
| 4. Date of Birth | _____ | Month | Day | Year | |
| 5. Sex | Male _____ | Female _____ | | | |
| 6. Marital Status | _____ | Single | Married | Separated Divorced | Widow Widower |

7. Religion _____
Denomination _____

8. Occupation of Father _____
(Be specific)

9. Occupation of Mother _____
(Be specific)

10. Occupation of Spouse _____
(Be specific)

11. Number and Ages of Children Male _____ Female _____ Total _____

| | | | | |
|---------------|----------------|-----------------|-----------------|-----------|
| Under \$5,000 | \$5,000-10,000 | \$10,000-15,000 | \$15,000-20,000 | \$20,000+ |
|---------------|----------------|-----------------|-----------------|-----------|

12. Total Family Income _____

| | | | | |
|---------------|----------------|-----------------|-----------------|-----------|
| Under \$5,000 | \$5,000-10,000 | \$10,000-15,000 | \$15,000-20,000 | \$20,000+ |
|---------------|----------------|-----------------|-----------------|-----------|

13. Education of Father _____
Years of formal schooling completed _____

14. Education of Mother _____
Years of formal schooling completed _____

15. Education of Spouse _____
Years of formal schooling completed _____

16. Educational Background

| Name of Institution | Major | Credit Hours | Degree |
|---------------------|-------|--------------|--------|
| Location | Minor | | Date |
| Name of Institution | Major | Credit Hours | Degree |
| Location | Minor | | Date |

| Name of Institution | Major | Credit Hours | Degree |
|---------------------|-------|--------------|--------|
|---------------------|-------|--------------|--------|

| | | |
|-----------------|--------------|-------------|
| <u>Location</u> | <u>Minor</u> | <u>Date</u> |
|-----------------|--------------|-------------|

| Name of Institution | Major | Credit Hours | Degree |
|---------------------|-------|--------------|--------|
|---------------------|-------|--------------|--------|

Location Minor Date

17. Teaching Experience

18. Other Work Experience

Date _____

**19. Type of Teaching
Certificate Held**

20. I requested this teaching assignment. _____ Yes _____ No _____

21. I taught this class last year in their previous grade. Yes No
22. Hobbies Currently Pursued _____

23. Current Professional Membership _____

24. Professional Journals Regularly Read _____

25. Magazines Currently Read _____

26. Books Read Concerning the Gifted _____

27. Courses Taken Concerning the Gifted

| Name | Content | Credit Hours |
|------------|-------------|--------------|
| Instructor | Institution | Date |
| Name | Content | Credit Hours |
| Instructor | Institution | Date |
| Name | Content | Credit Hours |
| Instructor | Institution | Date |

28. Utilizing your experience with children, please give your definition of giftedness.

29. In not more than 250 words, please discuss the type of classroom activities you believe are the most stimulating and vital for gifted children. Since educational terms tend to be ambiguous, please be specific by giving examples when possible.

APPENDIX B

The Relationship Between the Changes in Class Scores and All the Variables Investigated

The variables are expressed as:

- 1 = *
- 2 = aloof vs. sociable
- 3 = boorish vs. cultured
- 4 = emotional immaturity vs. emotional stability
- 5 = submission vs. dominance
- 6 = serious vs. happy-go-lucky
- 7 = lack of rigid internal standards vs. super-ego strength
- 8 = timid vs. adventurous
- 9 = tough-minded vs. sensitive
- 10 = accepting vs. suspecting
- 11 = conventional vs. unconventional
- 12 = naive vs. sophisticated
- 13 = confident vs. insecure
- 14 = conservatism vs. radicalism
- 15 = group dependency vs. self-sufficiency
- 16 = uncontrolled vs. controlled
- 17 = phlegmatic vs. excitable
- 18 = verbal I. Q.
- 19 = non-verbal I. Q.
- 20 = age
- 21 = socio-economic level judged by father's occupation
- 22 = yearly income of teacher (and husband if married)
- 23 = marital status
- 24 = teacher is childless or has children
- 25 = years of formal education
- 26 = years of teaching (excluding the gifted)
- 27 = years of teaching the gifted
- 28 = credit hours in courses concerning gifted
- 29 = grade presently teaching (4, 5, or 6)
- 30 = number of students in the class
- 31 = rural or urban location
- 32 = sex
- 33 = age (in months)
- 34 = verbal I. Q.
- 35 = non-verbal I. Q.

The actual numbers are determined by their exponents in the following fashion:

$$\begin{aligned} 0.617090909 & \quad 01 = 6.17090909 \\ 0.617090909 & \quad 02 = 61.7090909 \\ 0.617090909 & \quad -01 = 0.0617090909 \\ 0.617090909 & \quad -02 = 0.00617090909 \end{aligned}$$

* 1 = the intercept

| | REGRESSION OF TEACHER PERSONALITY ITEMS WITH DELTA FLUENCY AVERAGE | STANDARD DEVIATION |
|-------|---|--------------------|
| X(2) | 0.627524752E 01 | 0.169074311E 01 |
| X(3) | 0.575247524E 01 | 0.167619857E 01 |
| X(4) | 0.600000000E 01 | 0.160850912E 01 |
| X(5) | 0.501386138E 01 | 0.195022535E 01 |
| X(6) | 0.466930693E 01 | 0.149587677E 01 |
| X(7) | 0.582178217E 01 | 0.143507679E 01 |
| X(8) | 0.605346534E 01 | 0.184496119E 01 |
| X(9) | 0.676633663E 01 | 0.198227649E 01 |
| X(10) | 0.389108910E 01 | 0.163482069E 01 |
| X(11) | 0.341386138E 01 | 0.117725044E 01 |
| X(12) | 0.591089108E 01 | 0.180111153E 01 |
| X(13) | 0.488118811E 01 | 0.160163067E 01 |
| X(14) | 0.552673267E 01 | 0.143225949E 01 |
| X(15) | 0.534257427E 01 | 0.147447505E 01 |
| X(16) | 0.722772277E 01 | 0.179218535E 01 |
| X(17) | 0.488712871E 01 | 0.166342919E 01 |
| Y | 0.106643069E 02 | 0.150614992E 02 |

SUMMARY OF SIGNIFICANCE TESTS

STD DEV = 0.145898308E 02

| | |
|-----------------------|---------------------|
| B 1z -0.177039000E 01 | Tz -0.934801572E-01 |
| B 2z 0.133071864E 01 | Tz 0.211702885E 01 |
| B 3z 0.118287400E 00 | Tz 0.166691146E 00 |
| B 4z 0.372745790E 01 | Tz 0.346594674E 01 |
| B 5z 0.803486000E-01 | Tz 0.111977907E 00 |
| B 6z -0.127517059E 01 | Tz -0.158541348E 01 |
| B 7z 0.518045990E 01 | Tz 0.403448912E 01 |
| B 8z -0.319842571E 01 | Tz -0.393779926E 01 |
| B 9z -0.140894970E 01 | Tz -0.210510989E 01 |
| B10z -0.254741380E 01 | Tz -0.252510515E 01 |
| B11z 0.162334560E 01 | Tz 0.135078772E 01 |
| B12z 0.433798600E 00 | Tz 0.615224378E 00 |
| B13z -0.154451090E 01 | Tz -0.143029761E 01 |
| B14z -0.271418000E 00 | Tz -0.316639389E 00 |
| B15z 0.213203020E 01 | Tz 0.162780511E 01 |
| B16z -0.380160760E 01 | Tz -0.424277659E 01 |
| B17z 0.782520400E 00 | Tz 0.885270569E 00 |

REGRESSION OF TEACHER PERSONALITY ITEMS WITH DELTA FLEXIBILITY
AVERAGE

| | | STANDARD DEVIATION |
|-------|-----------------|--------------------|
| X(2) | 0.627524752E 01 | 0.169074311E 01 |
| X(3) | 0.575247524E 01 | 0.167619857E 01 |
| X(4) | 0.600000000E 01 | 0.160850914E 01 |
| X(5) | 0.501386138E 01 | 0.195022935E 01 |
| X(6) | 0.466930693E 01 | 0.149587677E 01 |
| X(7) | 0.682178217E 01 | 0.143507673E 01 |
| X(8) | 0.605396539E 01 | 0.184996119E 01 |
| X(9) | 0.676633663E 01 | 0.198227649E 01 |
| X(10) | 0.389108910E 01 | 0.163482069E 01 |
| X(11) | 0.541386138E 01 | 0.157725044E 01 |
| X(12) | 0.591089108E 01 | 0.180111853E 01 |
| X(13) | 0.488118811E 01 | 0.160163067E 01 |
| X(14) | 0.552673267E 01 | 0.143225949E 01 |
| X(15) | 0.534257425E 01 | 0.147447505E 01 |
| X(16) | 0.722772277E 01 | 0.179218537E 01 |
| X(17) | 0.488712871E 01 | 0.166342919E 01 |
| Y | 0.348910891E 01 | 0.786621644E 01 |

SUMMARY OF SIGNIFICANCE TESTS

STD DEVS = 0.759900043E 01

| | |
|-----------------------|---------------------|
| B 1= -0.263713210E 02 | Tz -0.267347392E 01 |
| B 2= 0.108106202E 01 | Tz 0.330209707E 01 |
| B 3= -0.633890480E 00 | Tz -0.176918221E 01 |
| B 4= 0.212025820E 01 | Tz 0.378522229E 01 |
| B 5= 0.308173000E-01 | Tz 0.824597702E-01 |
| B 6= -0.839302320E 00 | Tz -0.212283945E 01 |
| B 7= 0.258109580E 01 | Tz 0.385938310E 01 |
| B 8= -0.276979322E 00 | Tz -0.654723839E 00 |
| B 9= -0.133533380E 01 | Tz -0.383056314E 01 |
| B10= -0.197613110E 01 | Tz -0.376087778E 01 |
| B11= 0.233119000E 01 | Tz 0.371973942E 01 |
| B12= 0.986139120E 00 | Tz 0.268520271E 01 |
| B13= -0.608405700E 00 | Tz -0.108170805E 01 |
| B14= -0.367494720E 00 | Tz -0.823134676E 00 |
| B15= 0.334445350E 01 | Tz 0.490261417E 01 |
| B16= -0.230908223E 01 | Tz -0.494779882E 01 |
| B17= 0.875827500E 00 | Tz C.190235881E 01 |

REGRESSION OF TEACHER PERSONALITY ITEMS WITH DELTA ORIGINALITY
 AVERAGE STANDARD DEVIATION

| | | |
|-------|-----------------|-----------------|
| X(2) | 0.627524752E 01 | 0.169074311E 01 |
| X(3) | 0.575247524E 01 | 0.167619857E 01 |
| X(4) | 0.600000000E 01 | 0.160850912E 01 |
| X(5) | 0.501386138E 01 | 0.195022933E 01 |
| X(6) | 0.466930493E 01 | 0.149587677E 01 |
| X(7) | 0.682178217E 01 | 0.143507673E 01 |
| X(8) | 0.605396334E 01 | 0.184496119E 01 |
| X(9) | 0.676633063E 01 | 0.198227649E 01 |
| X(10) | 0.389108910E 01 | 0.163482069E 01 |
| X(11) | 0.341386138E 01 | 0.117725044E 01 |
| X(12) | 0.591089108E 01 | 0.180111853E 01 |
| X(13) | 0.488118811E 01 | 0.160163067E 01 |
| X(14) | 0.552673267E 01 | 0.143225949E 01 |
| X(15) | 0.534257425E 01 | 0.147447505E 01 |
| X(16) | 0.722772277E 01 | 0.179218933E 01 |
| X(17) | 0.488712571E 01 | 0.166342919E 01 |
| Y | 0.684356435E 01 | 0.147758813E 02 |

SUMMARY OF SIGNIFICANCE TESTS

STD DEVS 0.143101417E 02

| | | |
|------|------------------|---------------------|
| B 1z | -0.251407540E 02 | Tz -0.135342784E 01 |
| B 2z | 0.249736190E 01 | Tz 0.405068383E 01 |
| B 3z | -0.929334000E-01 | Tz -0.133521805E 00 |
| B 4z | 0.347203080E 01 | Tz 0.329153918E 01 |
| B 5z | 0.886787900E 00 | Tz 0.126002776E 01 |
| B 6z | -0.103359794E 01 | Tz -0.131018316E 01 |
| B 7z | 0.404771720E 01 | Tz 0.321552052E 01 |
| B 8z | -0.275074737E 01 | Tz -0.345282313E 01 |
| B 9z | -0.631956900E 00 | Tz -0.993120317E 00 |
| B10z | -0.268088760E 01 | Tz -0.270934884E 01 |
| B11z | 0.262754640E 01 | Tz 0.222637356E 01 |
| B12z | 0.453582700E 00 | Tz 0.65585552E 00 |
| B13z | -0.134969670E 01 | Tz -0.146310778E 01 |
| B14z | -0.117370327E 01 | Tz -0.139601771E 01 |
| B15z | 0.239744400E 01 | Tz 0.202190884E 01 |
| B16z | -0.283773010E 01 | Tz -0.322894230E 01 |
| B17z | 0.826929200E 00 | Tz 0.953794924E 00 |

REGRESSION OF TEACHER PERSONALITY ITEMS WITH DELTA ELABORATION
 AVERAGE

| | AVERAGE | STANDARD DEVIATION |
|-------|-----------------|--------------------|
| X(2) | 0.627524752E 01 | 0.169074311E 01 |
| X(3) | 0.379247323E 01 | 0.167619537E 01 |
| X(4) | 0.600000000E 01 | 0.160850912E 01 |
| X(5) | 0.301386133E 01 | 0.195022532E 01 |
| X(6) | 0.466930693E 01 | 0.149387677E 01 |
| X(7) | 0.682178217E 01 | 0.143507673E 01 |
| X(8) | 0.605346534E 01 | 0.184496119E 01 |
| X(9) | 0.676633063E 01 | 0.198227649E 01 |
| X(10) | 0.389108910E 01 | 0.163482069E 01 |
| X(11) | 0.341386138E 01 | 0.117725049E 01 |
| X(12) | 0.591089108E 01 | 0.180111853E 01 |
| X(13) | 0.488118811E 01 | 0.160163067E 01 |
| X(14) | 0.552673267E 01 | 0.143225949E 01 |
| X(15) | 0.534237423E 01 | 0.147447503E 01 |
| X(16) | 0.722772277E 01 | 0.179418535E 01 |
| X(17) | 0.488712871E 01 | 0.166342919E 01 |
| Y | 0.128633463E 02 | 0.315107327E 02 |

SUMMARY OF SIGNIFICANCE TESTS

STD DEV= 0.307605403E 02

| | | |
|------|------------------|---------------------|
| B 1z | -0.423736400E 02 | Tz -0.106120781E 01 |
| B 2z | 0.194507510E 01 | Tz 0.146767905E 01 |
| B 3z | -0.130150510E 01 | Tz -0.869909536E 00 |
| B 4z | 0.812557430E 01 | Tz 0.358358238E 01 |
| B 5z | 0.178097700E 00 | Tz 0.117724410E 00 |
| B 6z | -0.276563820E 01 | Tz -0.163088602E 01 |
| B 7z | 0.770558550E 01 | Tz 0.284629617E 01 |
| B 8z | -0.443186981E 01 | Tz -0.258798547E 01 |
| B 9z | -0.339094660E 01 | Tz -0.240300334E 01 |
| B10z | -0.351694260E 01 | Tz -0.165348152E 01 |
| B11z | 0.322506410E 01 | Tz 0.127129894E 01 |
| B12z | 0.214822130E 01 | Tz 0.144503573E 01 |
| B13z | 0.281033240E 01 | Tz 0.123434100E 01 |
| B14z | 0.103273270E 01 | Tz 0.571437099E 00 |
| B15z | 0.576900090E 01 | Tz 0.201669638E 01 |
| B16z | -0.653302710E 01 | Tz -0.345821122E 01 |
| B17z | -0.152212900E 01 | Tz -0.816744084E 00 |

REGRESSION OF CLASS CHARACTERISTICS WITH DELTA FLUENCY

| AVERAGE | STANDARD DEVIATION |
|-----------------------|--------------------|
| X(18) 0.102279207E 03 | 0.109012180E 02 |
| X(19) 0.850059405E 02 | 0.181297670E 02 |
| X(20) 0.412237623E 02 | 0.115363224E 02 |
| X(21) 0.208930593E 01 | 0.992605854E 00 |
| X(22) 0.268118811E 01 | 0.969445193E 00 |
| X(23) 0.956435643E 00 | 0.204326148E 00 |
| X(24) 0.586138613E 00 | 0.493012629E 00 |
| X(25) 0.165366336E 02 | 0.380045628E 00 |
| X(26) 0.997821782E 01 | 0.699526850E 01 |
| X(27) 0.228118811E 01 | 0.201791317E 01 |
| X(28) 0.475247724E 00 | 0.791748860E 00 |
| X(29) 0.310891089E 01 | 0.842561210E 00 |
| X(30) 0.257722772E 02 | 0.38162541E 01 |
| X(31) 0.667326732E 00 | 0.471637831E 00 |
| Y 0.106693069E 02 | 0.120614992E 02 |

SUMMARY OF SIGNIFICANCE TESTS

STD DEV = 0.145989221E 02

| | |
|------------------------|----------------------|
| B 1= 0.197818630E 03 | T= 0.248033014E 01 |
| B18= 0.620020590E 00 | T= 0.381980596E 01 |
| B19= -0.254946018E 00 | T= -0.312593704E 01 |
| B20= -0.283756720E 00 | T= -0.196351609E 01 |
| B21= 0.501614800E 00 | T= 0.402998746E 00 |
| B22= 0.182998340E 01 | T= 0.109099061E 01 |
| B23= 0.330459670E 01 | T= 0.806770625E 00 |
| B24= -0.389242550E 01 | T= -0.125681120E 01 |
| B25= -0.127517590E 02 | T= -0.238648495E 01 |
| B26= -0.672011000E -02 | T= -0.302048096E -01 |
| B27= 0.222433480E 01 | T= 0.221311860E 01 |
| B28= 0.894229240E 01 | T= 0.287740902E 01 |
| B29= -0.934222880E 00 | T= -0.803022345E 00 |
| B30= -0.560542710E 00 | T= -0.2064595507E 01 |
| B31= -0.438376000E 01 | T= -0.145565429E 01 |

REGRESSION OF CLASS CHARACTERISTICS WITH DELTA FLEXIBILITY

| | AVERAGE | STANDARD DEVIATION |
|-------|-----------------|--------------------|
| X(18) | 0.102279207E 03 | 0.109012180E 02 |
| X(19) | 0.850039405E 02 | 0.181297076E 02 |
| X(20) | 0.412237623E 02 | 0.113363224E 02 |
| X(21) | 0.206930093E 01 | 0.992605854E 00 |
| X(22) | 0.268118811E 01 | 0.969445193E 00 |
| X(23) | 0.956435643E 00 | 0.204326148E 00 |
| X(24) | 0.386138613E 00 | 0.493012823E 00 |
| X(25) | 0.165366330E 02 | 0.780045628E 00 |
| X(26) | 0.997821782E 01 | 0.629526650E 01 |
| X(27) | 0.228118811E 01 | 0.201781317E 01 |
| X(28) | 0.475247524E 00 | 0.791748860E 00 |
| X(29) | 0.510891084E 01 | 0.522501210E 00 |
| X(30) | 0.257722772E 02 | 0.381642541E 01 |
| X(31) | 0.667326732E 00 | 0.471637331E 00 |
| Y | 0.348910591E 01 | 0.780621644E 01 |

SUMMARY OF SIGNIFICANCE TESTS

STD DEV = 0.766164685E 01

| | | | |
|------|------------------|----|------------------|
| B 1z | 0.996329900E 02 | Tz | 0.238036812E 01 |
| B18z | 0.329833821E 00 | Tz | 0.387196719E 01 |
| B19z | -0.113101102E 00 | Tz | -0.264241040E 01 |
| B20z | -0.120214101E 00 | Tz | -0.158504835E 01 |
| B21z | -0.493278700E 00 | Tz | -0.755134612E 00 |
| B22z | -0.189823400E 00 | Tz | -0.215636439E 00 |
| B23z | 0.503427500E 00 | Tz | 0.234189386E 00 |
| B24z | -0.610093220E 00 | Tz | -0.375358295E 00 |
| B25z | -0.639304200E 01 | Tz | -0.227979000E 01 |
| B26z | 0.587166900E -01 | Tz | 0.502874885E 00 |
| B27z | 0.767479950E 00 | Tz | 0.145502424E 01 |
| B28z | 0.442699070E 01 | Tz | 0.271431406E 01 |
| B29z | -0.124829238E 01 | Tz | -0.194065808E 01 |
| B30z | -0.293022690E 00 | Tz | -0.205644774E 01 |
| B31z | 0.195605300E 01 | Tz | 0.123762980E 01 |

REGRESSION OF CLASS CHARACTERISTICS WITH DELTA ORIGINALITY

| AVERAGE | STANDARD DEVIATION |
|-----------------------|--------------------|
| X(18) 0.102279207E 03 | 0.109012180E 02 |
| X(19) 0.850059405E 02 | 0.181297670E 02 |
| X(20) 0.412237623E 02 | 0.115363224E 02 |
| X(21) 0.206930693E 01 | 0.992605854E 00 |
| X(22) 0.268118811E 01 | 0.969445193E 00 |
| X(23) 0.956435643E 00 | 0.204326148E 00 |
| X(24) 0.386138813E 00 | 0.493012623E 00 |
| X(25) 0.165366336E 02 | 0.580045628E 00 |
| X(26) 0.997821782E 01 | 0.659526650E 01 |
| X(27) 0.228118811E 01 | 0.201781317E 01 |
| X(28) 0.475247324E 00 | 0.791748869E 00 |
| X(29) 0.510891089E 01 | 0.822561210E 00 |
| X(30) 0.257722772E 02 | 0.381642941E 01 |
| X(31) 0.667326732E 00 | 0.471637832E 00 |
| Y 0.884396435E 01 | 0.147758813E 02 |

SUMMARY OF SIGNIFICANCE TESTS

STD DEVS 0.142954145E 02

| | |
|-----------------------|---------------------|
| B 1= 0.252652510E 03 | T= 0.323443796E 01 |
| B18= 0.663169120E 00 | T= 0.417150190E 01 |
| B19= -0.156013963E 00 | T= -0.232869830E 01 |
| B20= -0.185500480E 00 | T= -0.131058801E 01 |
| B21= 0.533076700E 00 | T= 0.454179291E 00 |
| B22= 0.691918300E 00 | T= 0.421173919E 00 |
| B23= 0.556030000E 00 | T= 0.138599844E 00 |
| B24= -0.520424787E 01 | T= -0.171569710E 01 |
| B25= -0.174146076E 02 | T= -0.332763238E 01 |
| B26= 0.237522380E 00 | T= 0.109002677E 01 |
| B27= 0.230987520E 01 | T= 0.234652914E 01 |
| B28= 0.100577604E 02 | T= 0.330439743E 01 |
| B29= -0.713747340E 00 | T= -0.594581772E 00 |
| B30= -0.341648600E 00 | T= -0.128478499E 01 |
| B31= -0.396739700E 01 | T= -0.134508618E 01 |

REGRESSION OF CLASS CHARACTERISTICS WITH DELTA ELABORATION

| | AVERAGE | STANDARD DEVIATION |
|-------|-----------------|--------------------|
| X(18) | 0.102279207E 03 | 0.109012180E 02 |
| X(19) | 0.850099409E 02 | 0.181297670E 02 |
| X(20) | 0.412237623E 02 | 0.119363229E 02 |
| X(21) | 0.206930693E 01 | 0.992605854E 00 |
| X(22) | 0.268118311E 01 | 0.964445193E 00 |
| X(23) | 0.956435643E 00 | 0.204326145E 00 |
| X(24) | 0.386138613E 00 | 0.493012629E 00 |
| X(25) | 0.165386336E 02 | 0.580045628E 00 |
| X(26) | 0.997821782E 01 | 0.695526650E 01 |
| X(27) | 0.228118811E 01 | 0.201721317E 01 |
| X(28) | 0.473247524E 00 | 0.791748860E 00 |
| X(29) | 0.510891089E C1 | 0.822561210E 00 |
| X(30) | 0.257722772E 02 | 0.381642341E 01 |
| X(31) | 0.667326732E 00 | 0.471637831E 00 |
| Y | 0.128693465E 02 | 0.315107327E 02 |

SUMMARY OF SIGNIFICANCE TESTS

STD DEV = 0.305859035E 02

| | | | |
|------|-------------------|----|-------------------|
| B 1z | 0.260880750E 03 | Tz | 0.156129101E 01 |
| B18z | 0.651171850E 00 | Tz | 0.191483026E 01 |
| B19z | -0.679117560E -01 | Tz | -0.397448989E 00 |
| B20z | -0.591069060E 00 | Tz | -0.195220826E 01 |
| B21z | 0.118414220E 01 | Tz | 0.454084511E 00 |
| B22z | 0.341347720E 01 | Tz | 0.971337601E 00 |
| B23z | 0.343436200E 00 | Tz | 0.400200069E -01 |
| B24z | -0.281478400E 00 | Tz | -0.433804793E -01 |
| B25z | -0.125438820E 02 | Tz | -0.112052140E 01 |
| B26z | -0.707516000E 00 | Tz | -0.151787309E 01 |
| B27z | 0.285142510E 01 | Tz | 0.12591e710E 01 |
| B28z | 0.796057330E 01 | Tz | 0.122263450E 01 |
| B29z | -0.791934212E C1 | Tz | -0.308405980E 01 |
| B30z | -0.158087984E 01 | Tz | -0.277917633E 01 |
| B31z | -0.155918830E 02 | Tz | -0.246486972E 01 |

REGRESSION OF STUDENT CHARACTERISTICS WITH DELTA FLUENCY

| | AVERAGE | STANDARD DEVIATION |
|-------|-----------------|--------------------|
| X(32) | 0.524732475E 00 | 0.499882116E 00 |
| X(33) | 0.126441384E 03 | 0.102502937E 02 |
| X(34) | 0.124578217E 03 | 0.712100184E 01 |
| X(35) | 0.121990099E 03 | 0.906779041E 01 |
| Y | 0.106693069E 02 | 0.150614992E 02 |

SUMMARY OF SIGNIFICANCE TESTS

STD DEVS 0.148643438E 02

| | | |
|------------------|------------------|---------------------------------|
| B 1 _x | -0.154027800E 02 | T _x -0.922259304E 00 |
| B32 _x | 0.507713490E 01 | T _x 0.382243634E 01 |
| B33 _x | 0.649947640E-01 | T _x 0.987073418E 00 |
| B34 _x | 0.116444010E 00 | T _x 0.118213344E 01 |
| B35 _x | 0.560180000E-02 | T _x 0.781752382E-01 |

REGRESSION OF STUDENT CHARACTERISTICS WITH DELTA FLEXIBILITY

| | AVERAGE | STANDARD DEVIATION |
|-------|-----------------|--------------------|
| X(32) | 0.524732475E 00 | 0.499882116E 00 |
| X(33) | 0.126441384E 03 | 0.102502937E 02 |
| X(34) | 0.124578217E 03 | 0.712100184E 01 |
| X(35) | 0.121990099E 03 | 0.906779041E 01 |
| Y | 0.348910891E 01 | 0.786621644E 01 |

SUMMARY OF SIGNIFICANCE TESTS

STD DEVS 0.782598786E 01

| | | |
|------------------|------------------|---------------------------------|
| B 1 _x | 0.127560400E 02 | T _x 0.145069597E 01 |
| B32 _x | 0.196812907E 01 | T _x 0.281434501E 01 |
| B33 _x | -0.179045830E-01 | T _x -0.516467202E 00 |
| B34 _x | -0.284474100E-01 | T _x -0.548537283E 00 |
| B35 _x | -0.368218800E-01 | T _x -0.976009723E 00 |

REGRESSION OF STUDENT CHARACTERISTICS WITH DELTA ORIGINALITY

| | AVERAGE | STANDARD DEVIATION |
|-------|-----------------|--------------------|
| X(32) | 0.524792475E 00 | 0.499882116E 00 |
| X(33) | 0.126441584E 03 | 0.102502937E 02 |
| X(34) | 0.124578217E 03 | 0.712100184E 01 |
| X(35) | 0.121990099E 03 | 0.906779041E 01 |
| Y | 0.684356435E 01 | 0.197758815E 02 |

SUMMARY OF SIGNIFICANCE TESTS

STD DEV = 0.197432349E 02

| | | | |
|------|------------------|----|------------------|
| B 1= | 0.271424700E 01 | T= | 0.164093184E 00 |
| B32= | 0.314323620E 01 | T= | 0.238587203E 01 |
| B33= | 0.131615410E-01 | T= | 0.232149774E 00 |
| B34= | -0.353481700E-01 | T= | -0.361806811E 00 |
| B35= | 0.406791000E-01 | T= | 0.572355501E 00 |

REGRESSION OF STUDENT CHARACTERISTICS WITH DELTA ELABORATION

| | AVERAGE | STANDARD DEVIATION |
|-------|-----------------|--------------------|
| X(32) | 0.524792475E 00 | 0.499882116E 00 |
| X(33) | 0.126441584E 03 | 0.102502937E 02 |
| X(34) | 0.124578217E 03 | 0.712100184E 01 |
| X(35) | 0.121990099E 03 | 0.906779041E 01 |
| Y | 0.128653465E 02 | 0.315107327E 02 |

STD DEV = 0.315660562E 02

| | | | |
|------|------------------|----|------------------|
| B 1= | 0.364292400E 02 | T= | 0.102713904E 01 |
| B32= | 0.230324350E 01 | T= | 0.816549505E 00 |
| B33= | -0.880178060E-01 | T= | -0.629449386E 00 |
| B34= | -0.220080680E 00 | T= | -0.105211735E 01 |
| B35= | 0.112907200E 00 | T= | 0.741973970E 00 |

REGRESSION OF TEACHER PERSONALITY CHARACTERISTICS WITH DELTA
MATH

| | AVERAGE | STANDARD DEVIATION |
|-------|-----------------|--------------------|
| X(2) | 0.617090909E 01 | 0.165731504E 01 |
| X(3) | 0.373636363E 01 | 0.161322670E 01 |
| X(4) | 0.610000000E 01 | 0.167674548E 01 |
| X(5) | 0.528545454E 01 | 0.212204305E 01 |
| X(6) | 0.476909090E 01 | 0.149904313E 01 |
| X(7) | 0.685494945E 01 | 0.149215534E 01 |
| X(8) | 0.616727272E 01 | 0.181403700E 01 |
| X(9) | 0.680303036E 01 | 0.198665520E 01 |
| X(10) | 0.376363636E 01 | 0.167879343E 01 |
| X(11) | 0.359818181E 01 | 0.135514817E 01 |
| X(12) | 0.612727272E 01 | 0.187743328E 01 |
| X(13) | 0.467272727E 01 | 0.173944430E 01 |
| X(14) | 0.545636363E 01 | 0.145638017E 01 |
| X(15) | 0.547818181E 01 | 0.148412251E 01 |
| X(16) | 0.712727272E 01 | 0.174988467E 01 |
| X(17) | 0.480545454E 01 | 0.164199423E 01 |
| Y | 0.420181818E 01 | 0.623822725E 01 |

SUMMARY OF SIGNIFICANCE TESTS

STD DEV = 0.597357467E 01

| | | | |
|------|------------------|----|------------------|
| B 1z | 0.102989890E 02 | Tz | 0.204024714E 01 |
| B 2z | 0.182379790E 00 | Tz | 0.739124165F 00 |
| B 3z | -0.125248730E 00 | Tz | -0.457076928E 00 |
| B 4z | -0.112970795E 01 | Tz | -0.368256689E 01 |
| B 5z | -0.541822700E 00 | Tz | -0.250864583F 01 |
| B 6z | 0.188620200E -01 | Tz | 0.628548605E -01 |
| B 7z | -0.172078370E 00 | Tz | -0.615408414E 00 |
| B 8z | 0.946843400E -01 | Tz | 0.319155202E 00 |
| B 9z | -0.125451530E 00 | Tz | -0.607154870E 00 |
| B10z | 0.160682580E 00 | Tz | 0.599749278E 00 |
| B11z | 0.337029010E 00 | Tz | 0.125035182F 01 |
| B12z | 0.456852120E 00 | Tz | 0.254405375E 01 |
| B13z | 0.870727300E 00 | Tz | 0.239171646E 01 |
| B14z | -0.292884340E 00 | Tz | -0.116726115F 01 |
| B15z | 0.398031560E 00 | Tz | 0.115109954F 01 |
| B16z | 0.324901980E 00 | Tz | 0.103718834F 01 |
| B17z | -0.160243210E 01 | Tz | -0.529785854E 01 |

REGRESSION OF TEACHER PERSONALITY CHARACTERISTICS WITH DELTA SCIENCE

| | AVERAGE | STANDARD DEVIATION |
|-------|-----------------|--------------------|
| X(2) | 0.617090909E 01 | 0.165731504E 01 |
| X(3) | 0.573636363E 01 | 0.161322670E 01 |
| X(4) | 0.610000000E 01 | 0.167674548E 01 |
| X(5) | 0.528545454E 01 | 0.212204305E 01 |
| X(6) | 0.476909090E 01 | 0.179904313E 01 |
| X(7) | 0.685424245E 01 | 0.149215534E 01 |
| X(8) | 0.616727272E 01 | 0.181403700E 01 |
| X(9) | 0.680363636E 01 | 0.198665528E 01 |
| X(10) | 0.376363636E 01 | 0.167879343E 01 |
| X(11) | 0.559818181E 01 | 0.135514817E 01 |
| X(12) | 0.612727272E 01 | 0.187743328E 01 |
| X(13) | 0.467272727E 01 | 0.173944430E 01 |
| X(14) | 0.545636363E 01 | 0.145638017E 01 |
| X(15) | 0.547818181E 01 | 0.148412251E 01 |
| X(16) | 0.712727272E 01 | 0.174988467E 01 |
| X(17) | 0.480545454E 01 | 0.164199423E 01 |
| Y | 0.553636363E 01 | 0.131721061E 02 |

SUMMARY OF SIGNIFICANCE TESTS

STD DEV= 0.118338752E 02

| | | | |
|------|------------------|----|------------------|
| B 1= | 0.299600570E 02 | Tz | 0.299597406E 01 |
| B 2= | 0.143710510E 01 | Tz | 0.293992706E 01 |
| B 3= | 0.796759360E 00 | Tz | 0.146774497E 01 |
| B 4= | 0.106315000E-01 | Tz | 0.174938869E-01 |
| B 5= | -0.181753958E 01 | Tz | -0.424789081E 01 |
| B 6= | 0.231256910E 01 | Tz | 0.389002771E 01 |
| B 7= | -0.258633000E 01 | Tz | -0.465282520E 01 |
| B 8= | -0.101920129E 01 | Tz | -0.173418722E 01 |
| B 9= | -0.310459300E-01 | Tz | -0.758464992E-01 |
| B10= | -0.832492490E 00 | Tz | -0.156851483E 01 |
| B11= | 0.188505141E 01 | Tz | 0.353017705E 01 |
| B12= | -0.199007125E 01 | Tz | -0.547422803E 01 |
| B13= | 0.422119300E 00 | Tz | 0.585288582E 00 |
| B14= | -0.752953120E 00 | Tz | -0.151477122E 01 |
| B15= | -0.109380747E 01 | Tz | -0.159677415E 01 |
| B16= | -0.134612580E 00 | Tz | -0.217320645E 00 |
| B17= | -0.262861100E 00 | Tz | -0.438686594E 00 |

REGRESSION OF TEACHER PERSONALITY CHARACTERISTICS WITH DELTA
SOCIAL STUDIES

| | AVERAGE | STANDARD DEVIATION |
|-------|-----------------|--------------------|
| X(2) | 0.61709090E 01 | 0.165731509E 01 |
| X(3) | 0.573636363E 01 | 0.161322670E 01 |
| X(4) | 0.610000000E 01 | 0.167674548E 01 |
| X(5) | 0.528545454E 01 | 0.212204305E 01 |
| X(6) | 0.476909090E 01 | 0.149904313E 01 |
| X(7) | 0.685454545E 01 | 0.149215537E 01 |
| X(8) | 0.616727272E 01 | 0.181403700E 01 |
| X(9) | 0.680363636E 01 | 0.198665526E 01 |
| X(10) | 0.376363636E 01 | 0.167879343E 01 |
| X(11) | 0.359818181E 01 | 0.135514817E 01 |
| X(12) | 0.612727272E 01 | 0.187743328E 01 |
| X(13) | 0.467272727E 01 | 0.173944430E 01 |
| X(14) | 0.545636363E 01 | 0.145638017E 01 |
| X(15) | 0.347818181E 01 | 0.148412251E 01 |
| X(16) | 0.712727272E 01 | 0.174988467E 01 |
| X(17) | 0.480545454E 01 | 0.164199423E 01 |
| Y | 0.541272727E 01 | 0.27039741E 01 |

SUMMARY OF SIGNIFICANCE TESTS

STD DEV = 0.78422318E 01

| | | |
|------|------------------|-----------------------|
| B 1z | 0.218572780E 02 | Tz = 0.329821212E 01 |
| B 2z | 0.756267900E 00 | Tz = 0.233459044E 01 |
| B 3z | 0.203632790E 00 | Tz = 0.566059183E 00 |
| B 4z | -0.210636520E 00 | Tz = -0.523012964E 00 |
| B 5z | -0.128388666E 01 | Tz = -0.452796609E 01 |
| B 6z | 0.137479550E 01 | Tz = 0.348962980E 01 |
| B 7z | -0.111222070E 01 | Tz = -0.301933141E 01 |
| B 8z | 0.279009760E 00 | Tz = 0.716370166E 00 |
| B 9z | 0.380856780E 00 | Tz = 0.140404017E 01 |
| B10z | -0.319047960E 00 | Tz = -0.907091787E 00 |
| B11z | -0.267831800E 00 | Tz = -0.756870209E 00 |
| B12z | -0.131528235E 01 | Tz = -0.545129199E 01 |
| B13z | -0.317249700E 00 | Tz = -0.663778337E 00 |
| B14z | -0.184195800F-01 | Tz = -0.559172681E-01 |
| B15z | 0.244534070E 00 | Tz = 0.538677701E 00 |
| B16z | -0.875138960E 00 | Tz = -0.213196155E 01 |
| B17z | -0.469776000E-01 | Tz = -0.118305757E 00 |

REGRESSION OF TEACHER PERSONALITY CHARACTERISTICS WITH DELTA
READING

| | AVERAGE | STANDARD DEVIATION |
|-------|----------------|--------------------|
| X(2) | 0.61709090E 01 | 0.16573150E 01 |
| X(3) | 0.57363636E 01 | 0.16132267E 01 |
| X(4) | 0.61000000E 01 | 0.16767454E 01 |
| X(5) | 0.52854545E 01 | 0.21220430E 01 |
| X(6) | 0.47690909E 01 | 0.14990431E 01 |
| X(7) | 0.68549454E 01 | 0.14921533E 01 |
| X(8) | 0.61672727E 01 | 0.18140370E 01 |
| X(9) | 0.68030303E 01 | 0.19866552E 01 |
| X(10) | 0.37636363E 01 | 0.16787934E 01 |
| X(11) | 0.35981818E 01 | 0.13551481E 01 |
| X(12) | 0.61272727E 01 | 0.18774332E 01 |
| X(13) | 0.46727272E 01 | 0.17394443E 01 |
| X(14) | 0.54563636E 01 | 0.14563801E 01 |
| X(15) | 0.54781818E 01 | 0.14841225E 01 |
| X(16) | 0.71272727E 01 | 0.17498846E 01 |
| X(17) | 0.48054545E 01 | 0.16419942E 01 |
| Y | 0.61654545E 01 | 0.12525089E 02 |

SUMMARY OF SIGNIFICANCE TESTS

STD DEV = 0.115422143E 02

| | | |
|------|-----------------|--------------------|
| 8 1= | 0.13569558E 02 | T= 0.13912303E 01 |
| 8 2= | 0.17072813E 01 | T= 0.35808898E 01 |
| 8 3= | -0.20689263E 00 | T= -0.39075844E 00 |
| 8 4= | -0.25121799E 00 | T= -0.42381893E 00 |
| 8 5= | -0.11650639E 01 | T= -0.27917530E 01 |
| 8 6= | 0.24296415E 01 | T= 0.41902317E 01 |
| 8 7= | -0.13853851E 01 | T= -0.25552950E 01 |
| 8 8= | -0.39859154E 00 | T= -0.69533967E 00 |
| 8 9= | 0.11524794E 01 | T= 0.28867017E 01 |
| 810= | -0.28472246E 00 | T= -0.55000650E 00 |
| 811= | 0.10825805E 01 | T= 0.20785970E 01 |
| 812= | -0.22821099E 01 | T= -0.64361871E 01 |
| 813= | 0.13006010E 00 | T= 0.18489142E 00 |
| 814= | -0.76919546E 00 | T= -0.15865499E 01 |
| 815= | -0.74666935E 00 | T= -0.11175340E 01 |
| 816= | -0.10518793E 00 | T= -0.17410814E 00 |
| 817= | 0.18464350E 00 | T= 0.31593658E 00 |

REGRESSION OF TEACHER PERSONALITY CHARACTERISTICS WITH DELTA
LISTENING

| | AVERAGE | STANDARD DEVIATION |
|-------|----------------|--------------------|
| X(2) | 0.61709090E 01 | 0.16573150E 01 |
| X(3) | 0.57363636E 01 | 0.16132267E 01 |
| X(4) | 0.61000000E 01 | 0.16767454E 01 |
| X(5) | 0.52854545E 01 | 0.21220430E 01 |
| X(6) | 0.47690909E 01 | 0.14990431E 01 |
| X(7) | 0.68545454E 01 | 0.14921553E 01 |
| X(8) | 0.61672727E 01 | 0.18140370E 01 |
| X(9) | 0.68036363E 01 | 0.19865532E 01 |
| X(10) | 0.37630363E 01 | 0.16787434E 01 |
| X(11) | 0.55981818E 01 | 0.13551481E 01 |
| X(12) | 0.61272727E 01 | 0.18774332E 01 |
| X(13) | 0.46727272E 01 | 0.17394443E 01 |
| X(14) | 0.54563636E 01 | 0.14563801E 01 |
| X(15) | 0.54781818E 01 | 0.14841225E 01 |
| X(16) | 0.71272727E 01 | 0.17498846E 01 |
| X(17) | 0.48054545E 01 | 0.16419942E 01 |
| Y | 0.38072727E 01 | 0.90607714E 01 |

SUMMARY OF SIGNIFICANCE TESTS

STD DEV = 0.89727724E 01

| | | | |
|------|-------------------|----|------------------|
| B 1= | 0.934657200E 01 | T= | 0.123267385E 01 |
| B 2= | -0.264324630E 00 | T= | -0.713158380E 00 |
| B 3= | 0.591201490E 00 | T= | 0.143634620E 01 |
| B 4= | -0.582487120E 00 | T= | -0.126408298E 01 |
| B 5= | -0.673711500E -01 | T= | -0.207671690E 00 |
| B 6= | 0.733633910E 00 | T= | 0.167193250E 01 |
| B 7= | 0.385287900E -01 | T= | 0.914152185E -01 |
| B 8= | -0.130574470E 00 | T= | -0.293014887E 00 |
| B 9= | 0.676689970E 00 | T= | 0.218032333E 01 |
| B10= | 0.799742310E 00 | T= | 0.198727813E 01 |
| B11= | -0.124223830E 00 | T= | -0.306819648E 00 |
| B12= | -0.488920740E 00 | T= | -0.177375262E 01 |
| B13= | -0.161928500E 00 | T= | -0.296113677E 00 |
| B14= | -0.541512190E 00 | T= | -0.143677109E 01 |
| B15= | -0.703655790E 00 | T= | -0.135476262E 01 |
| B16= | -0.891619200E -01 | T= | -0.179197235E 00 |
| B17= | -0.457820200E 00 | T= | -0.100768199E 01 |

REGRESSION OF TEACHER PERSONALITY CHARACTERISTICS WITH DELTA
WRITING

| | AVERAGE | STANDARD DEVIATION |
|-------|-----------------|--------------------|
| X(2) | 0.61709090E 01 | 0.165731504E 01 |
| X(3) | 0.573636363E 01 | 0.161322679E 01 |
| X(4) | 0.610000000E 01 | 0.167674548E 01 |
| X(5) | 0.528545454E 01 | 0.212204303E 01 |
| X(6) | 0.476909090E 01 | 0.149904313E 01 |
| X(7) | 0.685634545E 01 | 0.149215534E 01 |
| X(8) | 0.616727272E 01 | 0.161403700E 01 |
| X(9) | 0.680303636E 01 | 0.198665526E 01 |
| X(10) | 0.376303630E 01 | 0.167879343E 01 |
| X(11) | 0.559818181E 01 | 0.135514817E 01 |
| X(12) | 0.612727272E 01 | 0.187743328E 01 |
| X(13) | 0.467272727E 01 | 0.173944430E 01 |
| X(14) | 0.545636363E 01 | 0.145638017E 01 |
| X(15) | 0.547818181E 01 | 0.148412251E 01 |
| X(16) | 0.712727272E 01 | 0.174988467E 01 |
| X(17) | 0.480545454E 01 | 0.164199429E 01 |
| Y | 0.514909090E 01 | 0.996604202E 01 |

SUMMARY OF SIGNIFICANCE ESTS

STD DEV = 0.905780114E 01

| | | | |
|------|------------------|----|------------------|
| B 1= | 0.105842120E 02 | T= | 0.138279636E 01 |
| B 2= | -0.442234250E 00 | T= | -0.118196496E 01 |
| B 3= | -0.538266090E 00 | T= | -0.129546148E 01 |
| B 4= | -0.208974840E 01 | T= | -0.448392039E 01 |
| B 5= | 0.521683820E 00 | T= | 0.159294594E 01 |
| B 6= | -0.910936480E 00 | T= | -0.205193639E 01 |
| B 7= | 0.471204600E 00 | T= | 0.110750711E 01 |
| B 8= | 0.179311260E 01 | T= | 0.398605097E 01 |
| B 9= | 0.154060566E 01 | T= | 0.451729794E 01 |
| B10= | 0.163905757E 01 | T= | 0.403465738E 01 |
| B11= | -0.993212290E 00 | T= | -0.243006867E 01 |
| B12= | 0.357162980E 00 | T= | 0.128358578E 01 |
| B13= | -0.136218680E 01 | T= | -0.246760540E 01 |
| B14= | -0.489112780E 00 | T= | -0.128556016E 01 |
| B15= | -0.395644020E 00 | T= | -0.754590648E 00 |
| B16= | 0.332533960E 00 | T= | 0.701383501E 00 |
| B17= | -0.841632900E 00 | T= | -0.183507977E 01 |

REGRESSION OF CLASS CHARACTERISTICS WITH DELTA MATH
AVERAGE

| | | STANDARD DEVIATION |
|-------|-----------------|--------------------|
| X(18) | 0.101674545E 03 | 0.119344956E 02 |
| X(19) | 0.847640909E 02 | 0.177489931E 02 |
| X(20) | 0.404327272E 02 | 0.113024177E 02 |
| X(21) | 0.214545454E 01 | 0.984731927E 00 |
| X(22) | 0.267090909E 01 | 0.940327564E 00 |
| X(23) | 0.914545454E 00 | 0.279811400E 00 |
| X(24) | 0.538181818E 00 | 0.98993853E 00 |
| X(25) | 0.165381818E 02 | 0.573707751E 00 |
| X(26) | 0.964363636E 01 | 0.642430390E 01 |
| X(27) | 0.214000000E 01 | 0.199554148E 01 |
| X(28) | 0.481818181E 00 | 0.772145050E 00 |
| X(29) | 0.514545454E 01 | 0.810185209E 00 |
| X(30) | 0.255636363E 02 | 0.376622727E 01 |
| X(31) | 0.694545454E 00 | 0.461018979E 00 |
| Y | 0.420181818E 01 | 0.023822727E 01 |

SUMMARY OF SIGNIFICANCE TESTS

STD DEV = 0.599230870E 01

| | | |
|------|------------------|---------------------|
| B 1= | 0.383722830E 02 | T= 0.139383439E 01 |
| B18= | -0.632330240E-01 | T= -0.132236130E 01 |
| B19= | -0.157314110E-01 | T= -0.581892915E 00 |
| B20= | -0.137975470E-01 | T= -0.255111890E 00 |
| B21= | -0.145398060E 01 | T= -0.296933778E 01 |
| B22= | -0.988322900E 00 | T= -0.155784904E 01 |
| B23= | 0.272265266E 01 | T= 0.189053413E 01 |
| B24= | -0.282713110E 00 | T= -0.228445618E 00 |
| B25= | -0.425323600E 00 | T= -0.230136393E 00 |
| B26= | -0.154421800E-01 | T= -0.173888998E 00 |
| B27= | 0.103089890E 00 | T= 0.441532425E 00 |
| B28= | 0.967027000E-01 | T= 0.870258681E-01 |
| B29= | -0.180462728E 01 | T= -0.364742085E 01 |
| B30= | -0.289630350E 00 | T= -0.306193373E 01 |
| B31= | 0.236748210E 01 | T= 0.204144896E 01 |

REGRESSION OF CLASS CHARACTERISTICS WITH DELTA SCIENCE

| AVERAGE | STANDARD DEVIATION |
|-----------------------|--------------------|
| X(18) 0.101674949E 03 | 0.119346356E 02 |
| X(19) 0.847640909E 02 | 0.177489931E 02 |
| X(20) 0.406327272E 02 | 0.113024177E 02 |
| X(21) 0.214545454E 01 | 0.984731927E 00 |
| X(22) 0.267090909E 01 | 0.440327964E 00 |
| X(23) 0.914545454E 00 | 0.279811400E 00 |
| X(24) 0.538181818E 00 | 0.998993853E 00 |
| X(25) 0.165381818E 02 | 0.373707751E 00 |
| X(26) 0.964363636E 01 | 0.642430390E 01 |
| X(27) 0.214000000E 01 | 0.199354148E 01 |
| X(28) 0.481818181E 00 | 0.772145050E 00 |
| X(29) 0.514545454E 01 | 0.810185204E 00 |
| X(30) 0.255636363E 02 | 0.376622724E 01 |
| X(31) 0.694545454E 00 | 0.461018979E 00 |
| Y 0.553636363E 01 | 0.131721661E 02 |

SUMMARY OF SIGNIFICANCE TESTS

STD DEV= 0.120781435E 02

| | |
|-----------------------|---------------------|
| B 1= 0.174397370E 02 | T= 0.314287735E 00 |
| B18= 0.166516796E 00 | T= 0.160109933E 01 |
| B19= 0.121256969E 00 | T= 0.209223896E 01 |
| B20= 0.401687908E 00 | T= 0.368478009E 01 |
| B21= 0.430165500E 00 | T= 0.435843488E 00 |
| B22= -0.289407900E 01 | T= -0.210683670E 01 |
| B23= 0.257356721E 01 | T= 0.886587880E 00 |
| B24= -0.393620850E 00 | T= -0.157800717E 00 |
| B25= -0.415946870E 01 | T= -0.111660013E 01 |
| B26= -0.217271860E 00 | T= -0.121383833E 01 |
| B27= 0.147429760E 01 | T= 0.198022580E 01 |
| B28= -0.190174340E 01 | T= -0.849093805E 00 |
| B29= 0.232001155E 01 | T= 0.232638987E 01 |
| B30= 0.220981740E 00 | T= 0.115904981E 01 |
| B31= -0.349986400E 00 | T= -0.149725917E 00 |

REGRESSION OF CLASS CHARACTERISTICS WITH DELTA SOCIAL STUDIES

| | AVERAGE | STANDARD DEVIATION |
|-------|-----------------|--------------------|
| X(18) | 0.101674545E 03 | 0.119344556E 02 |
| X(19) | 0.847690909E 02 | 0.177489931E 02 |
| X(20) | 0.406327272E 02 | 0.113024177E 02 |
| X(21) | 0.214545454E 01 | 0.984731921E 00 |
| X(22) | 0.267090909E 01 | 0.940327564E 00 |
| X(23) | 0.914545454E 00 | 0.279811400E 00 |
| X(24) | 0.538181818E 00 | 0.498993653E 00 |
| X(25) | 0.165381818E 02 | 0.573707751E 00 |
| X(26) | 0.964363636E 01 | 0.642430390E 01 |
| X(27) | 0.214000000E 01 | 0.199554148E 01 |
| X(28) | 0.481818181E 00 | 0.772145050E 00 |
| X(29) | 0.514545454E 01 | 0.810185204E 00 |
| X(30) | 0.255636363E 02 | 0.576622729E 01 |
| X(31) | 0.694545454E 00 | 0.461018979E 00 |
| Y | 0.541272727E 01 | 0.827039741E 01 |

SUMMARY OF SIGNIFICANCE TESTS

STD DEV= 0.802247806E 01

| | | | |
|------|------------------|----|------------------|
| B 1= | 0.617106220E 02 | T= | 0.167432245E 01 |
| B18= | 0.155702750E 00 | T= | 0.225391449E 01 |
| B19= | 0.773309600E-02 | T= | 0.200889941E 00 |
| B20= | -0.204777450E-01 | T= | -0.202811191E 00 |
| B21= | 0.626274600E 00 | T= | 0.955323634E 00 |
| B22= | 0.292103800E 00 | T= | 0.343913608E 00 |
| B23= | -0.124067320E 01 | T= | -0.643480402E 00 |
| B24= | 0.133805835E 01 | T= | 0.807602336E 00 |
| B25= | -0.502893820E 01 | T= | -0.203248692E 01 |
| B26= | -0.138409900E-01 | T= | -0.116837487E 00 |
| B27= | 0.932795800E 00 | T= | 0.188628706E 01 |
| B28= | 0.149531720E 01 | T= | 0.100514503E 01 |
| B29= | 0.234721430E 00 | T= | 0.354353512E 00 |
| B30= | 0.216531040E 00 | T= | 0.170984806E 01 |
| B31= | 0.262657900E 00 | T= | 0.169171784E 00 |

REGRESSION OF CLASS CHARACTERISTICS WITH DELTA READING

| | AVERAGE | STANDARD DEVIATION |
|-------|-----------------|--------------------|
| X(18) | 0.101674545E 03 | 0.119344950E 02 |
| X(19) | 0.847690909E 02 | 0.177489931E 02 |
| X(20) | 0.406327272E 02 | 0.113024177E 02 |
| X(21) | 0.214545454E 01 | 0.984731927E 00 |
| X(22) | 0.267090909E 01 | 0.940327564E 00 |
| X(23) | 0.914545454E 00 | 0.219811400E 00 |
| X(24) | 0.538181818E 00 | 0.498993853E 00 |
| X(25) | 0.165381818E 02 | 0.373707751E 00 |
| X(26) | 0.964363636E 01 | 0.842430390E 01 |
| X(27) | 0.214000000E 01 | 0.199554148E 01 |
| X(28) | 0.481818181E 00 | 0.772145050E 00 |
| X(29) | 0.314545454E 01 | 0.810185204E 00 |
| X(30) | 0.255636363E 02 | 0.376622729E 01 |
| X(31) | 0.694545454E 00 | 0.461018979E 00 |
| Y | 0.616545454E 01 | 0.125250891E 02 |

SUMMARY OF SIGNIFICANCE TESTS

STD DEV= 0.114729127E 02

| | | | |
|------|------------------|----|------------------|
| B 1= | 0.936704320E 02 | T= | 0.177711917E 01 |
| B18= | 0.359898331E 00 | T= | 0.364297222E 01 |
| B19= | 0.224443540E-01 | T= | 0.407697549E 00 |
| B20= | 0.113249157E 00 | T= | 0.109368493E 01 |
| B21= | 0.799813000E-01 | T= | 0.853119642E-01 |
| B22= | -0.144257500E 01 | T= | -0.118764101E 01 |
| B23= | -0.136179809E 01 | T= | -0.493884609E 00 |
| B24= | -0.304568514E 01 | T= | -0.128541208E 01 |
| B25= | -0.894008020E 01 | T= | -0.252654900E 01 |
| B26= | 0.141931250E 00 | T= | 0.834760494E 00 |
| B27= | 0.218553650E 01 | T= | 0.309039588E 01 |
| B28= | 0.159428830E 01 | T= | 0.749371393E 00 |
| B29= | 0.551803770E 00 | T= | 0.593066643E 00 |
| B30= | 0.601906830E 00 | T= | 0.332354436E 01 |
| B31= | -0.183464780E 01 | T= | -0.826279707E 00 |

REGRESSION OF CLASS CHARACTERISTICS WITH DELTA LISTENING
AVERAGE

| | | STANDARD DEVIATION |
|-------|-----------------|--------------------|
| X(18) | 0.101674945E 03 | 0.119344956E 02 |
| X(19) | 0.847690909E 02 | 0.177489931E 02 |
| X(20) | 0.406327272E 02 | 0.113024177E 02 |
| X(21) | 0.214545454E 01 | 0.984731927E 00 |
| X(22) | 0.267090909E 01 | 0.940327564E 00 |
| X(23) | 0.914545454E 00 | 0.279811400E 00 |
| X(24) | 0.538181818E 00 | 0.98993853E 00 |
| X(25) | 0.165381818E 02 | 0.573707751E 00 |
| X(26) | 0.964363636E 01 | 0.642430390E 01 |
| X(27) | 0.214000000E 01 | 0.199554148E 01 |
| X(28) | 0.481818181E 00 | 0.772145050E 00 |
| X(29) | 0.314545454E 01 | 0.810185204E 00 |
| X(30) | 0.255636363E 02 | 0.376622724E 01 |
| X(31) | 0.694545454E 00 | 0.461018974E 00 |
| Y | 0.380727272E 01 | 0.905077144E 01 |

SUMMARY OF SIGNIFICANCE TESTS

STD DEV = 0.895558703E 01

| | | |
|------|------------------|-----------------------|
| B 1z | 0.110976273E 03 | Tz = 0.269723597E 01 |
| B18z | 0.120571577E 00 | Tz = 0.156349222E 01 |
| B19z | 0.266957430E-01 | Tz = 0.621223486E 00 |
| B20z | -0.128582670E 00 | Tz = -0.139076684E 01 |
| B21z | 0.180064890E 01 | Tz = 0.246051095E 01 |
| B22z | 0.248240590E 01 | Tz = 0.261814990E 01 |
| B23z | -0.384459218E 01 | Tz = -0.178623186E 01 |
| B24z | 0.339492414E 01 | Tz = 0.194366711E 01 |
| B25z | -0.692549650E 01 | Tz = -0.250733293E 01 |
| B26z | -0.399335850E 00 | Tz = -0.300897579E 01 |
| B27z | 0.155040321E 01 | Tz = 0.280850688E 01 |
| B28z | 0.275536020E 01 | Tz = 0.165914145E 01 |
| B29z | -0.675970380E 00 | Tz = -0.914158090E 00 |
| B30z | -0.168512109E 00 | Tz = -0.119202629E 01 |
| B31z | -0.554509880E 01 | Tz = -0.319931042E 01 |

REGRESSION OF CLASS CHARACTERISTICS WITH DELTA WRITING
AVERAGE

| | | STANDARD DEVIATION |
|-------|-----------------|--------------------|
| X(18) | 0.101674545E 03 | 0.110344556E 02 |
| X(19) | 0.347640904E 02 | 0.177489931E 02 |
| X(20) | 0.406327272E 02 | 0.113024277E 02 |
| X(21) | 0.214545454E 01 | 0.884731927E 00 |
| X(22) | 0.267090907E 01 | 0.940327567E 00 |
| X(23) | 0.914545454E 00 | 0.274811400E 00 |
| X(24) | 0.538181818E 00 | 0.798993853E 00 |
| X(25) | 0.165381818E 02 | 0.573707751E 00 |
| X(26) | 0.964363636E 01 | 0.642430390E 01 |
| X(27) | 0.214000000E 01 | 0.199554148E 01 |
| X(28) | 0.481818181E 00 | 0.772145050E 00 |
| X(29) | 0.514545454E 01 | 0.810185204E 00 |
| X(30) | 0.255636363E 02 | 0.376622724E 01 |
| X(31) | 0.694545454E 00 | 0.461018979E 00 |
| Y | 0.514909090E 01 | 0.996604202E 01 |

SUMMARY OF SIGNIFICANCE TESTS

STD DEV = 0.002480072E 01

| | | | |
|------|-------------------|----|------------------|
| B 1± | 0.123375763E 03 | T± | 0.297563697E 01 |
| B18± | -0.150576924E 00 | T± | -0.193762840E 01 |
| B19± | -0.602420550E -01 | T± | -0.139112718E 01 |
| B20± | -0.378280460E 00 | T± | -0.464407505E 01 |
| B21± | 0.761868300E 00 | T± | 0.103308832E 01 |
| B22± | 0.251490610E 01 | T± | 0.263211491E 01 |
| B23± | 0.264325031E 01 | T± | 0.121867283E 01 |
| B24± | 0.481009004E 01 | T± | 0.258079422E 01 |
| B25± | -0.469415780E 01 | T± | -0.168647500E 01 |
| B26± | 0.133991750E 00 | T± | 0.100183912E 01 |
| B27± | 0.193689720E 00 | T± | 0.348179888E 00 |
| B28± | 0.514949790E 01 | T± | 0.307702629E 01 |
| B29± | -0.225063233E 01 | T± | -0.302036528E 01 |
| B30± | -0.389748370E 00 | T± | -0.273589189E 01 |
| B31± | -0.11638870E 01 | T± | -0.666479799E 00 |

REGRESSION OF STUDENT CHARACTERISTICS WITH DELTA MATH
AVERAGE

| | | STANDARD DEVIATION |
|-------|-----------------|--------------------|
| X(32) | 0.50909090E 00 | 0.500372438E 00 |
| X(33) | 0.126865454E 03 | 0.101144682E 02 |
| X(34) | 0.125327272E 03 | 0.775385102E 01 |
| X(35) | 0.122741818E 03 | 0.104361486E 02 |
| Y | 0.420181818E 01 | 0.629822729E 01 |

SUMMARY OF SIGNIFICANCE TESTS

STD DEV= 0.617345553E 01

| | |
|-----------------------|---------------------|
| B 1= 0.139202490E 02 | T= 0.233232411E 01 |
| B32= 0.219920541E 00 | T= 0.417511404E 00 |
| B33= -0.991409750E-01 | T= -0.378564804E 01 |
| B34= 0.162104000E-01 | T= 0.447730097E 00 |
| B35= 0.582976000E-02 | T= 0.217690194E 00 |

REGRESSION OF STUDENT CHARACTERISTICS WITH DELTA SCIENCE
AVERAGE

| | | STANDARD DEVIATION |
|-------|-----------------|--------------------|
| X(32) | 0.50909090E 00 | 0.500372438E 00 |
| X(33) | 0.126865454E 03 | 0.101144682E 02 |
| X(34) | 0.125327272E 03 | 0.775385102E 01 |
| X(35) | 0.122741818E 03 | 0.104361486E 02 |
| Y | 0.553636363E 01 | 0.131721561E 02 |

SUMMARY OF SIGNIFICANCE TESTS

STD DEV= 0.131697779E 02

| | |
|-----------------------|---------------------|
| B 1= 0.230176510E 02 | T= 0.180792708E 01 |
| B32= -0.893927757E 00 | T= -0.795578402E 00 |
| B33= 0.896935560E-02 | T= 0.160555912E 00 |
| B34= -0.964906000E-01 | T= -0.124933418E 01 |
| B35= -0.494632700E-01 | T= -0.865862690E 00 |

REGRESSION OF STUDENT CHARACTERISTICS WITH DELTA SOCIAL STUDIES

| | AVERAGE | STANDARD DEVIATION |
|-------|-----------------|--------------------|
| X(32) | 0.5090909E 00 | 0.500372438E 00 |
| X(33) | 0.126865454E 03 | 0.101144682E 02 |
| X(34) | 0.125327272E 03 | 0.775385102E 01 |
| X(35) | 0.122741818E 03 | 0.104361486E 02 |
| Y | 0.541272727E 01 | 0.827039741E 01 |

SUMMARY OF SIGNIFICANCE TESTS

STD DEV = 0.821638571E 01

| | |
|------------------------|----------------------|
| B 1 = 0.312356510E 02 | T = 0.393249432E 01 |
| B32 = -0.108321518E 00 | T = -0.154522928E 00 |
| B33 = -0.909295280E-01 | T = -0.260896125E 01 |
| B34 = -0.729235200E-01 | T = -0.151406476E 01 |
| B35 = -0.414601700E-01 | T = -0.116330893E 01 |

REGRESSION OF STUDENT CHARACTERISTICS WITH DELTA READING

| | AVERAGE | STANDARD DEVIATION |
|-------|-----------------|--------------------|
| X(32) | 0.5090909E 00 | 0.500372438E 00 |
| X(33) | 0.126865454E 03 | 0.101144682E 02 |
| X(34) | 0.125327272E 03 | 0.775385102E 01 |
| X(35) | 0.122741818E 03 | 0.104361486E 02 |
| Y | 0.616545454E 01 | 0.129250891E 02 |

SUMMARY OF SIGNIFICANCE TESTS

STD DEV = 0.123282057E 02

| | |
|------------------------|----------------------|
| B 1 = 0.587030580E 02 | T = 0.492560087E 01 |
| B32 = 0.104545831E 01 | T = 0.993953025E 00 |
| B33 = -0.126212572E 00 | T = -0.241349418E 01 |
| B34 = -0.181956720E 00 | T = -0.251679155E 01 |
| B35 = -0.116127280E 00 | T = -0.217159601E 01 |

REGRESSION OF STUDENT CHARACTERISTICS WITH DELTA LISTENING
AVERAGE

| | | STANDARD DEVIATION |
|-------|-----------------|--------------------|
| X(32) | 0.5090909E 00 | 0.500372438E 00 |
| X(33) | 0.126865454E 03 | 0.101144682E 02 |
| X(34) | 0.125327272E 03 | 0.775395102E 01 |
| X(35) | 0.122741818E 03 | 0.104361486E 02 |
| Y | 0.380727272E 01 | 0.906077144E 01 |

SUMMARY OF SIGNIFICANCE TESTS

STD DEV= 0.902391643E 01

| | | |
|------|------------------|---------------------|
| B 1= | 0.154318220E 02 | T= 0.176897013E 01 |
| B32= | 0.112691537E 01 | T= 0.146371070E 01 |
| B33= | -0.878896530E-01 | T= -0.229607567E 01 |
| B34= | -0.439336700E-01 | T= -0.830197534E 00 |
| B35= | 0.363200900E-01 | T= 0.927890023E 00 |

REGRESSION OF STUDENT CHARACTERISTICS WITH DELTA WRITING
AVERAGE

| | | STANDARD DEVIATION |
|-------|-----------------|--------------------|
| X(32) | 0.5090909E 00 | 0.500372438E 00 |
| X(33) | 0.126865454E 03 | 0.101144682E 02 |
| X(34) | 0.125327272E 03 | 0.775395102E 01 |
| X(35) | 0.122741818E 03 | 0.104361486E 02 |
| Y | 0.514909090E 01 | 0.996604202E 01 |

SUMMARY OF SIGNIFICANCE TESTS

STD DEV= 0.971797059E 01

| | | |
|------|------------------|---------------------|
| B 1= | 0.342607790E 02 | T= 0.364686549E 01 |
| B32= | 0.982137960E-01 | T= 0.118455616E 00 |
| B33= | -0.230282539E 00 | T= -0.558635682E 01 |
| B34= | -0.417441200E-01 | T= -0.732484572E 00 |
| B35= | 0.430569100E-01 | T= 0.102143718E 01 |

APPENDIX C
An Influence Profile of Significant Variables

The variables are expressed as:

- 1 = *
- 2 = aloof vs. sociable
- 3 = boorish vs. cultured
- 4 = emotional immaturity vs. emotional stability
- 5 = submission vs. dominance
- 6 = serious vs. happy-go-lucky
- 7 = lack of rigid internal standards vs. super-ego strength
- 8 = timid vs. adventurous
- 9 = tough-minded vs. sensitive
- 10 = accepting vs. suspecting
- 11 = conventional vs. unconventional
- 12 = naive vs. sophisticated
- 13 = confident vs. insecure
- 14 = conservatism vs. radicalism
- 15 = group dependency vs. self-sufficiency
- 16 = uncontrolled vs. controlled
- 17 = phlegmatic vs. excitable
- 18 = verbal I. Q.
- 19 = non-verbal I. Q.
- 20 = age
- 21 = socio-economic level judged by father's occupation
- 22 = yearly income of teacher (and husband if married)
- 23 = marital status
- 24 = teacher is childless or has children
- 25 = years of formal education
- 26 = years of teaching (excluding the gifted)
- 27 = years of teaching the gifted
- 28 = credit hours in courses concerning gifted
- 29 = grade presently teaching (4, 5, or 6)
- 30 = number of students in the class
- 31 = rural or urban location
- 32 = sex
- 33 = age (in months)
- 34 = verbal I. Q.
- 35 = non-verbal I. Q.

The actual numbers are determined by their exponents in the following fashion:

$$\begin{aligned} 0.617090909 & \quad 01 = 6.17090909 \\ 0.617090909 & \quad 02 = 61.7090909 \\ 0.617090909 & \quad -01 = 0.0617090909 \\ 0.617090909 & \quad -02 = 0.00617090909 \end{aligned}$$

* 1 = the intercept

REGRESSION OF SIGNIFICANT ITEMS WITH DELTA FLUENCY
 AVERAGE STANDARD DEVIATION

| | | |
|-------|-----------------|-----------------|
| X(4) | 0.60000000E 01 | 0.160850912E 01 |
| X(7) | 0.682178217E 01 | 0.143507673E 01 |
| X(8) | 0.605346534E 01 | 0.184496119E 01 |
| X(16) | 0.722772777E 01 | 0.179218535E 01 |
| X(13) | 0.102279207E 03 | 0.109012180E 02 |
| X(19) | 0.850059405E 02 | 0.181297676E 02 |
| X(28) | 0.475247524E 00 | 0.791748860E 00 |
| X(32) | 0.524752475E 00 | 0.499882116E 00 |
| Y | 0.106693069E 02 | 0.150614992E 02 |

SUMMARY OF SIGNIFICANCE TESTS

STD DEV= 0.144834264E 02

| | |
|------------------------------|------------------------|
| $t_1 = -0.125602227E 02$ | $t = -0.144871033E 01$ |
| $t_4 = 0.174941812E 01$ | $t = 0.278369343E 01$ |
| $t_7 = 0.193590552E 01$ | $t = 0.280644768E 01$ |
| $t_8 = -0.124619717E 01$ | $t = -0.211217148E 01$ |
| $t_{16} = -0.120742921E 01$ | $t = -0.217474743E 01$ |
| $t_{18} = 0.184729841E 00$ | $t = 0.185071668E 01$ |
| $t_{19} = -0.774872750E -01$ | $t = -0.131846576E 01$ |
| $t_{28} = 0.184567903E 01$ | $t = 0.197123366E 01$ |
| $t_{32} = 0.497976920E 01$ | $t = 0.393408731E 01$ |

REGRESSION OF SIGNIFICANT ITEMS WITH DELTA FLEXIBILITY
 AVERAGE

| | | STANDARD DEVIATION |
|-------|-----------------|--------------------|
| X(2) | 0.627524752E 01 | 0.169074311E 01 |
| X(4) | 0.600000000E 01 | 0.160850912E 01 |
| X(7) | 0.682178217E 01 | 0.143507673E 01 |
| X(9) | 0.676633663E 01 | 0.158227649E 01 |
| X(10) | 0.389108910E 01 | 0.163432069E 01 |
| X(11) | 0.541386138E 01 | 0.117725046E 01 |
| X(12) | 0.591089108E 01 | 0.180111853E 01 |
| X(15) | 0.534257425E 01 | 0.147447505E 01 |
| X(16) | 0.722772277E 01 | 0.179218535E 01 |
| X(18) | 0.102279207E 03 | 0.109012180E 02 |
| X(19) | 0.850099405E 02 | 0.181297676E 02 |
| X(28) | 0.475247524E 00 | 0.791748860E 00 |
| X(32) | 0.524752475E 00 | 0.499882116E 00 |
| Y | 0.348910891E 01 | 0.786621644E 01 |

SUMMARY OF SIGNIFICANCE TESTS

STD DEV = 0.761526536E 01

| | | | |
|-------|------------------|----|------------------|
| S 1= | -0.204558846E 02 | T= | -0.395602547E 01 |
| E 2= | 0.967299793E 00 | T= | 0.254102883E 01 |
| E 4= | 0.955751540E 00 | T= | 0.251472788E 01 |
| E 7= | 0.561837362E 00 | T= | 0.167373106E 01 |
| E 9= | -0.909322671E 00 | T= | -0.277347756E 01 |
| E 10= | -0.927292040E 00 | T= | -0.263790900E 01 |
| E 11= | 0.210746467E 01 | T= | 0.424758857E 01 |
| E 12= | 0.795432512E 00 | T= | 0.252747219E 01 |
| E 13= | 0.221584823E 01 | T= | 0.366709173E 01 |
| E 16= | -0.127680460E 01 | T= | -0.302170848E 01 |
| E 18= | 0.158408818E 00 | T= | 0.273635569E 01 |
| E 19= | -0.106629741E 00 | T= | -0.250994056E 01 |
| E 28= | 0.671060617E 00 | T= | 0.134626929E 01 |
| E 32= | 0.169735316E 01 | T= | 0.247736860E 01 |

REGRESSION OF SIGNIFICANT ITEMS WITH DELTA ORIGINALITY

| | AVERAGE | STANDARD DEVIATION |
|-------|-----------------|--------------------|
| X(2) | 0.627524752E 01 | 0.169074311E 01 |
| X(4) | 0.600000000E 01 | 0.160850912E 01 |
| X(7) | 0.682178217E 01 | 0.143507673E 01 |
| X(8) | 0.605346534E 01 | 0.184496119E 01 |
| X(10) | 0.389108010E 01 | 0.163482069E 01 |
| X(16) | 0.722772277E 01 | 0.179218535E 01 |
| X(18) | 0.102279207E 03 | 0.109012180E 02 |
| X(25) | 0.165366336E 02 | 0.580045628E 00 |
| X(28) | 0.475247524E 00 | 0.791748860E 00 |
| Y | 0.684356435E 01 | 0.147758813E 02 |

SUMMARY OF SIGNIFICANCE TESTS

STD DEV = 0.143602042E 02

| | |
|-----------------------|---------------------|
| B 1= 0.845075140E 02 | T= 0.234664573E 01 |
| B 2= 0.978745630E 00 | T= 0.169665251E 01 |
| B 4= 0.259993625E 01 | T= 0.392580089E 01 |
| B 7= 0.309060984F 01 | T= 0.339175921F 01 |
| B 8= -0.312926342E 01 | T= -0.376865846E 01 |
| B10= -0.166915245E 01 | T= -0.271103407E 01 |
| B16= -0.150732922E 01 | T= -0.240613914E 01 |
| B18= 0.157309854E 00 | T= 0.181496524E 01 |
| B25= -0.616126690E 01 | T= -0.238935540E 01 |
| B28= 0.345244540E 01 | T= 0.239618791E 01 |

REGRESSION OF SIGNIFICANT ITEMS WITH DELTA FLABORATION
 AVERAGE STANDARD DEVIATION
 X(4) 0.60000000E 01 0.160850912E 01
 X(7) 0.682178217E 01 0.143507673E 01
 X(8) 0.605346534E 01 0.184496119E 01
 X(16) 0.722772277E 01 0.179218535E 01
 X(29) 0.510891089E 01 0.822561210E 00
 X(30) 0.257722772E 02 0.381642541E 01
 X(31) 0.667326732E 00 0.471637831E 00
 Y 0.128653465E 02 0.315107327E 02

SUMMARY OF SIGNIFICANCE TESTS

STD DEV= 0.308084806E 02

| | |
|-----------------------|---------------------|
| B 1= 0.388685310E 02 | T= 0.186358471E 01 |
| B 4= 0.358880718E 01 | T= 0.254517878E 01 |
| B 7= 0.408141288E 01 | T= 0.276764632E 01 |
| B 8= -0.289478415E 01 | T= -0.237909125E 01 |
| B16= -0.391954252E 01 | T= -0.345225158E 01 |
| B29= -0.176527865E 01 | T= -0.877739087E 00 |
| B30= -0.693649000E 00 | T= -0.168181958E 01 |
| B31= -0.394132430E 01 | T= -0.119623971E 01 |

REGRESSION OF SIGNIFICANT ITEMS WITH DELTA MATHEMATICS

| | AVERAGE | STANDARD DEVIATION |
|-------|-----------------|--------------------|
| X(4) | 0.61000000E 01 | 0.16767454E 01 |
| X(17) | 0.48054545E 01 | 0.16419942E 01 |
| X(21) | 0.21454545E 01 | 0.98473192E 00 |
| X(29) | 0.51454545E 01 | 0.81018520E 00 |
| X(30) | 0.25563636E 02 | 0.37662272E 01 |
| X(33) | 0.12686545E 03 | 0.10114468E 02 |
| Y | 0.420181818E 01 | 0.62382272E 01 |

SUMMARY OF SIGNIFICANCE TESTS

STD DEV = 0.601044042E 01

| | | |
|------|------------------|-----------------------|
| B 1z | 0.234249500E 02 | Tz = 0.440343254E 01 |
| B 4z | -0.855242380E 00 | Tz = -0.339617126E 01 |
| B17z | -0.512518570E 00 | Tz = -0.220588792E 01 |
| B21z | 0.149812330E 00 | Tz = 0.431493015E 00 |
| B29z | -0.251974000E 00 | Tz = -0.288610198E 00 |
| B30z | -0.253371134E 00 | Tz = -0.328678929E 01 |
| B33z | -0.317665000E-01 | Tz = -0.515467910E 00 |

REGRESSION OF SIGNIFICANT ITEMS WITH DELTA SCIENCE
 AVERAGE STANDARD DEVIATION

| | | |
|-------|-----------------|-----------------|
| X(2) | 0.617090909E 01 | 0.165731504E 01 |
| X(5) | 0.528545454E 01 | 0.212204305E 01 |
| X(6) | 0.476909090E 01 | 0.149904313E 01 |
| X(7) | 0.685454545E 01 | 0.149215534E 01 |
| X(11) | 0.559818181E 01 | 0.135514817E 01 |
| X(12) | 0.612727272E 01 | 0.187743328E 01 |
| X(20) | 0.406327272E 02 | 0.113024177E 02 |
| Y | 0.553636363E 01 | 0.131721661E 02 |

SUMMARY OF SIGNIFICANCE TESTS

STD DEV = 0.119795433E 02

| | | | |
|------|------------------|----|------------------|
| B 1= | 0.238903110E 02 | T= | 0.371775033E 01 |
| B 2= | 0.584518260E 00 | T= | 0.263977398E 01 |
| B 5= | -0.213097218E 01 | T= | -0.695030141E 01 |
| B 6= | 0.221005780E 01 | T= | 0.483532073E 01 |
| B 7= | -0.252525147E 01 | T= | -0.621095893E 01 |
| B11= | 0.167337493E 01 | T= | 0.373976093E 01 |
| B12= | -0.224042767E 01 | T= | -0.751098240E 01 |
| B20= | -0.499743300E-01 | T= | -0.789473553E 00 |

REGRESSION OF SIGNIFICANT ITEMS WITH DELTA SOCIAL STUDIES
 AVERAGE

| | | STANDARD DEVIATION |
|-------|-----------------|--------------------|
| X(5) | 0.528545454E 01 | 0.212204305E 01 |
| X(6) | 0.476909090E 01 | 0.149904913E 01 |
| X(7) | 0.685454545E 01 | 0.149215534E 01 |
| X(12) | 0.612727272E 01 | 0.187743928E 01 |
| X(33) | 0.126865454E 03 | 0.101144682E 02 |
| Y | 0.541272727E 01 | 0.827039741E 01 |

SUMMARY OF SIGNIFICANCE TESTS

STD DEV= 0.787051623E 01

| | | | |
|-----------|------------------|---------|------------------|
| B 1 \pm | 0.250664000E 02 | T \pm | 0.502957150E 01 |
| B 5 \pm | -0.872300660E 00 | T \pm | -0.467530016E 01 |
| B 6 \pm | 0.116009412E 01 | T \pm | 0.426821651E 01 |
| B 7 \pm | -0.919944100E 00 | T \pm | -0.370479681E 01 |
| B12 \pm | -0.102752210E 01 | T \pm | -0.526949475E 01 |
| B33 \pm | -0.707368600E 01 | T \pm | -0.193037934E 01 |

REGRESSION OF SIGNIFICANT ITEMS WITH DELTA^A READING
 AVERAGE STANDARD DEVIATION

| | | |
|-------|-----------------|-----------------|
| X(2) | 0.61709090E 01 | 0.165731504E 01 |
| X(5) | 0.528545454E 01 | 0.212204305E 01 |
| X(6) | 0.476909090E 01 | 0.149904313E 01 |
| X(9) | 0.680363636E 01 | 0.198665526E 01 |
| X(12) | 0.612727272E 01 | 0.187743328E 01 |
| X(18) | 0.101674545E 03 | 0.119344556E 02 |
| X(27) | 0.214000000E 01 | 0.199554148E 01 |
| X(30) | 0.255636363E 02 | 0.376622724E 01 |
| Y | 0.616545454E 01 | 0.125250891E 02 |

SUMMARY OF SIGNIFICANCE TESTS

STD DEV = 0.114830562E 02

| | | | |
|------|------------------|----|------------------|
| B 1= | -0.797701600E 01 | T= | -0.917348025E 00 |
| B 2= | 0.879209500E 00 | T= | 0.238625254E 01 |
| B 5= | -0.405119800E 00 | T= | -0.128078976E 01 |
| B 6= | 0.102546764E 01 | T= | 0.260157559E 01 |
| B 9= | 0.115555690E 01 | T= | 0.377087153E 01 |
| B12= | -0.238770170E 01 | T= | -0.655458657E 01 |
| B18= | 0.203085320E 00 | T= | 0.448538155E 01 |
| B27= | -0.272310000E-01 | T= | -0.780776239E-01 |
| B30= | -0.307256400E 00 | T= | -0.149839299E 01 |

REGRESSION OF SIGNIFICANT ITEMS WITH DELTA LISTENING
AVERAGE

| | | |
|-------|-----------------|--------------------|
| X(22) | 0.267090909E 01 | STANDARD DEVIATION |
| X(26) | 0.964363635E 01 | 0.940327564E 00 |
| X(27) | 0.214000000E 01 | 0.642430390E 01 |
| X(31) | 0.694545454E 00 | 0.199554148E 01 |
| Y | 0.380727272E 01 | 0.461018979E 00 |
| | | 0.906077144E 01 |

SUMMARY OF SIGNIFICANCE TESTS

STD DEV= 0.907477437E 01

| | | | |
|------|------------------|----|------------------|
| B 1= | 0.295037611E 01 | T= | 0.250167375E 01 |
| B22= | 0.308600010E 00 | T= | 0.547854157E 00 |
| B26= | 0.247758710E-01 | T= | 0.283127156E 00 |
| B27= | 0.137970020E 00 | T= | 0.571736572E 00 |
| B31= | -0.719328500E 00 | T= | -0.713686848E 00 |

REGRESSION OF SIGNIFICANT ITEMS WITH DELTA WRITING
AVERAGE

| | | STANDARD DEVIATION |
|-------|-----------------|--------------------|
| X(4) | 0.61000000E 01 | 0.167674548E 01 |
| X(8) | 0.616727272E 01 | 0.181403700E 01 |
| X(9) | 0.680363636E 01 | 0.198665526E 01 |
| X(10) | 0.376363636E 01 | 0.167879343E 01 |
| X(20) | 0.406327272E 02 | 0.113024177E 02 |
| X(22) | 0.267090909E 01 | 0.040327564E 00 |
| X(24) | 0.538181818E 00 | 0.498993853E 00 |
| X(28) | 0.481818181E 00 | 0.772145050E 00 |
| X(29) | 0.514545454E 01 | 0.810185204E 00 |
| X(30) | 0.255636363E 02 | 0.376622724E 01 |
| X(33) | 0.126865454E 03 | 0.101144682E 02 |
| Y | 0.514909090E 01 | 0.996604202E 01 |

SUMMARY OF SIGNIFICANCE TESTS

STD DEV = 0.936912439E 01

| | | | |
|------|------------------|----|------------------|
| B 1= | 0.947419000E 01 | T= | 0.90422675E 00 |
| B 4= | -0.654430400E 00 | T= | -0.185166469E 01 |
| B 8= | 0.128184432E 01 | T= | 0.334709984E 01 |
| B 9= | 0.413547777E 00 | T= | 0.137226974E 01 |
| B10= | 0.590301350E 00 | T= | 0.179829518E 01 |
| B20= | -0.716673690E-01 | T= | -0.973180818E 00 |
| B22= | 0.166650730E 01 | T= | 0.291389599E 01 |
| B24= | 0.161368030E 01 | T= | 0.893606534E 00 |
| B28= | 0.182684640E 01 | T= | 0.270602858E 01 |
| B29= | -0.284887000E 01 | T= | -0.214119026E 01 |
| B30= | -0.186521191E 00 | T= | -0.148062491E 01 |
| B33= | 0.225854000E-01 | T= | 0.234337008E 00 |

APPENDIX D
Individual Student Data *

* The individual teacher data has been deleted to preserve their
anonymity.

D-1

CLASS CHARACTERISTICS
GRADE#4 CLASS SIZE#27 LOCATION:URBAN CLASS NUMBER# 1

| STUDENT CHARACTERISTICS | | MATH | | SCIENCE | | SOC STUD | | READING | | LISTEN | | WRITING | | FLUENCY | | FLEX | | ORIG | | ELAB | |
|-------------------------|-----|------|------|---------|------|----------|------|---------|------|--------|------|---------|------|---------|------|-------|------|------|------|------|------|
| NAME | AGE | PRE | POST | PRE | POST | PHE | POST | PRE | POST | PHE | POST | PRE | POST | PRE | POST | PRE | POST | PRE | POST | PRE | POST |
| AN | 11 | 116 | 262 | 263 | 264 | 271 | 254 | 261 | 272 | 271 | 268 | 279 | 271 | 265 | 280 | 19 | 32 | 43 | 63 | | |
| HA | 11 | 123 | 267 | 272 | 269 | 267 | 254 | 267 | 275 | 277 | 286 | 279 | 275 | 252 | 230 | 34 | 55 | 65 | 87 | | |
| HE | 11 | 120 | 122 | 250 | 259 | 263 | 287 | 259 | 277 | 283 | 279 | 279 | 284 | 291 | 42 | 23 | 26 | 63 | 100 | | |
| CR | 11 | 129 | 132 | 253 | 264 | 266 | 258 | 262 | 264 | 287 | 307 | 286 | 282 | 286 | 35 | 79 | 22 | 38 | 41 | 95 | 185 |
| DA | 11 | 109 | 132 | 257 | 265 | 269 | 283 | 262 | 269 | 293 | 276 | 276 | 276 | 269 | 37 | 67 | 25 | 35 | 19 | 41 | 56 |
| EF | 11 | 119 | 129 | 110 | 244 | 251 | 267 | 261 | 269 | 266 | 266 | 267 | 266 | 282 | 257 | 272 | 71 | 79 | 34 | 27 | 92 |
| FE | 11 | 119 | 120 | 121 | 254 | 253 | 262 | 267 | 251 | 266 | 261 | 280 | 275 | 272 | 259 | 284 | 34 | 67 | 31 | 25 | 36 |
| GO | 11 | 114 | 121 | 122 | 256 | 263 | 275 | 317 | 257 | 269 | 279 | 283 | 286 | 293 | 288 | 282 | 34 | 28 | 21 | 20 | 103 |
| HE | 11 | 115 | 130 | 139 | 270 | 266 | 267 | 267 | 265 | 273 | 270 | 303 | 273 | 281 | 271 | 278 | 38 | 55 | 26 | 33 | 85 |
| JH | 10 | 110 | 131 | 130 | 262 | 270 | 277 | 279 | 263 | 269 | 268 | 286 | 260 | 290 | 275 | 279 | 56 | 88 | 27 | 36 | 33 |
| MA | 10 | 116 | 128 | 114 | 259 | 258 | 273 | 273 | 273 | 273 | 278 | 277 | 278 | 291 | 299 | 52 | 52 | 37 | 69 | 75 | 76 |
| MC | 10 | 113 | 130 | 130 | 251 | 269 | 267 | 279 | 257 | 278 | 284 | 292 | 282 | 286 | 277 | 286 | 43 | 75 | 28 | 35 | 64 |
| MO | 10 | 125 | 109 | 109 | 269 | 274 | 273 | 291 | 273 | 288 | 284 | 295 | 294 | 303 | 288 | 286 | 50 | 50 | 23 | 29 | 31 |
| NE | 10 | 130 | 130 | 130 | 257 | 258 | 263 | 273 | 251 | 269 | 272 | 200 | 276 | 293 | 266 | 284 | 64 | 70 | 31 | 36 | 40 |
| PH | 10 | 132 | 132 | 136 | 253 | 264 | 275 | 271 | 266 | 261 | 279 | 295 | 284 | 306 | 284 | 280 | 51 | 51 | 37 | 53 | 111 |
| PI | 10 | 139 | 126 | 126 | 260 | 266 | 267 | 276 | 260 | 271 | 279 | 298 | 288 | 303 | 277 | 282 | 54 | 60 | 39 | 26 | 105 |
| RI | 10 | 125 | 109 | 109 | 256 | 251 | 260 | 257 | 263 | 250 | 272 | 249 | 268 | 276 | 273 | 288 | 58 | 61 | 41 | 23 | 63 |
| KO | 9 | 125 | 118 | 118 | 259 | 256 | 275 | 273 | 273 | 268 | 275 | 298 | 276 | 292 | 276 | 280 | 52 | 52 | 22 | 32 | 32 |
| ST | 9 | 122 | 122 | 120 | 260 | 270 | 260 | 257 | 261 | 266 | 266 | 295 | 279 | 295 | 274 | 275 | 41 | 43 | 32 | 32 | 34 |
| TA | 9 | 125 | 119 | 119 | 245 | 257 | 277 | 273 | 273 | 261 | 261 | 295 | 273 | 292 | 274 | 275 | 41 | 43 | 31 | 32 | 34 |
| VA | 9 | 126 | 121 | 121 | 256 | 252 | 267 | 273 | 273 | 261 | 269 | 286 | 276 | 296 | 271 | 280 | 59 | 69 | 77 | 38 | 60 |
| WA | 9 | 125 | 125 | 125 | 257 | 261 | 266 | 279 | 261 | 269 | 265 | 294 | 260 | 282 | 266 | 278 | 45 | 50 | 49 | 52 | 78 |
| HO | 9 | 126 | 122 | 120 | 245 | 257 | 262 | 270 | 261 | 266 | 261 | 294 | 260 | 280 | 266 | 278 | 46 | 50 | 49 | 52 | 165 |
| ST | 9 | 125 | 125 | 125 | 256 | 252 | 267 | 273 | 273 | 261 | 269 | 286 | 276 | 296 | 271 | 280 | 59 | 69 | 77 | 38 | 60 |
| VA | 9 | 124 | 124 | 124 | 254 | 250 | 267 | 271 | 261 | 267 | 261 | 293 | 273 | 295 | 278 | 287 | 50 | 50 | 49 | 52 | 39 |
| WA | 9 | 123 | 123 | 123 | 258 | 260 | 262 | 271 | 261 | 266 | 265 | 294 | 271 | 295 | 275 | 287 | 51 | 51 | 50 | 52 | 39 |
| HO | 9 | 124 | 124 | 124 | 258 | 260 | 262 | 271 | 261 | 266 | 265 | 294 | 271 | 295 | 275 | 287 | 51 | 51 | 50 | 52 | 39 |
| ST | 9 | 125 | 125 | 125 | 257 | 261 | 266 | 279 | 261 | 266 | 265 | 294 | 271 | 295 | 275 | 287 | 51 | 51 | 50 | 52 | 39 |
| VA | 9 | 126 | 126 | 126 | 258 | 260 | 262 | 271 | 261 | 266 | 265 | 294 | 271 | 295 | 275 | 287 | 51 | 51 | 50 | 52 | 39 |
| WA | 9 | 125 | 125 | 125 | 258 | 260 | 262 | 271 | 261 | 266 | 265 | 294 | 271 | 295 | 275 | 287 | 51 | 51 | 50 | 52 | 39 |
| HO | 9 | 126 | 126 | 126 | 258 | 260 | 262 | 271 | 261 | 266 | 265 | 294 | 271 | 295 | 275 | 287 | 51 | 51 | 50 | 52 | 39 |
| ST | 9 | 125 | 125 | 125 | 257 | 261 | 266 | 279 | 261 | 266 | 265 | 294 | 271 | 295 | 275 | 287 | 51 | 51 | 50 | 52 | 39 |
| VA | 9 | 126 | 126 | 126 | 258 | 260 | 262 | 271 | 261 | 266 | 265 | 294 | 271 | 295 | 275 | 287 | 51 | 51 | 50 | 52 | 39 |
| WA | 9 | 125 | 125 | 125 | 258 | 260 | 262 | 271 | 261 | 266 | 265 | 294 | 271 | 295 | 275 | 287 | 51 | 51 | 50 | 52 | 39 |
| HO | 9 | 126 | 126 | 126 | 258 | 260 | 262 | 271 | 261 | 266 | 265 | 294 | 271 | 295 | 275 | 287 | 51 | 51 | 50 | 52 | 39 |
| ST | 9 | 125 | 125 | 125 | 257 | 261 | 266 | 279 | 261 | 266 | 265 | 294 | 271 | 295 | 275 | 287 | 51 | 51 | 50 | 52 | 39 |
| VA | 9 | 126 | 126 | 126 | 258 | 260 | 262 | 271 | 261 | 266 | 265 | 294 | 271 | 295 | 275 | 287 | 51 | 51 | 50 | 52 | 39 |
| WA | 9 | 125 | 125 | 125 | 258 | 260 | 262 | 271 | 261 | 266 | 265 | 294 | 271 | 295 | 275 | 287 | 51 | 51 | 50 | 52 | 39 |
| HO | 9 | 126 | 126 | 126 | 258 | 260 | 262 | 271 | 261 | 266 | 265 | 294 | 271 | 295 | 275 | 287 | 51 | 51 | 50 | 52 | 39 |
| ST | 9 | 125 | 125 | 125 | 257 | 261 | 266 | 279 | 261 | 266 | 265 | 294 | 271 | 295 | 275 | 287 | 51 | 51 | 50 | 52 | 39 |
| VA | 9 | 126 | 126 | 126 | 258 | 260 | 262 | 271 | 261 | 266 | 265 | 294 | 271 | 295 | 275 | 287 | 51 | 51 | 50 | 52 | 39 |
| WA | 9 | 125 | 125 | 125 | 258 | 260 | 262 | 271 | 261 | 266 | 265 | 294 | 271 | 295 | 275 | 287 | 51 | 51 | 50 | 52 | 39 |
| HO | 9 | 126 | 126 | 126 | 258 | 260 | 262 | 271 | 261 | 266 | 265 | 294 | 271 | 295 | 275 | 287</ | | | | | |

CLASS CHARACTERISTICS CLASS SIZE=24 LOCATION=URBAN CLASS NUMBER= 2

| STUDENT CHARACTERISTICS ID | MATH | | | SCIENCE | | | SOC STUD | | | READING | | | LISTEN | | | WRITING | | | ELAB | | | | |
|----------------------------------|------|-----|-----|----------|------|-----|----------|-----|------|----------|------|-----|----------|-----|------|----------|------|-----|----------|-----|----|-----|----|
| | NAME | AGE | HOS | PRE POST | | | PRE POST | | | PRE POST | | | PRE POST | | | PRE POST | | | PRE POST | | | | |
| | | | | NON-VERB | VERB | PRE | POST | PRE | POST | PRE | POST | PRE | POST | PRE | POST | PRE | POST | PRE | POST | | | | |
| AL | M | 104 | H | 116 | 114 | 264 | 269 | 296 | 277 | 263 | 271 | 289 | 293 | 282 | 291 | 288 | 308 | 28 | 34 | 18 | 32 | 46 | |
| HA | M | 112 | H | 113 | 114 | 265 | 266 | 262 | 277 | 261 | 265 | 278 | 284 | 279 | 284 | 282 | 295 | 22 | 29 | 18 | 19 | 20 | |
| HB | M | 110 | H | 116 | 126 | 250 | 256 | 266 | 260 | 259 | 256 | 276 | 275 | 276 | 276 | 280 | 33 | 47 | 22 | 29 | 12 | | |
| BU | M | 110 | H | 100 | 100 | 260 | 269 | 283 | 277 | 269 | 271 | 280 | 284 | 279 | 282 | 279 | 280 | 15 | 16 | 15 | 16 | 30 | |
| CH | F | 111 | H | 119 | 119 | 250 | 256 | 269 | 271 | 256 | 260 | 283 | 275 | 276 | 282 | 267 | 269 | 45 | 62 | 25 | 25 | 60 | |
| CO | F | 114 | H | 110 | 116 | 254 | 265 | 271 | 277 | 268 | 281 | 278 | 293 | 278 | 297 | 280 | 295 | 41 | 41 | 21 | 21 | 44 | |
| DO | F | 119 | H | 114 | 120 | 266 | 274 | 291 | 275 | 253 | 266 | 265 | 296 | 296 | 296 | 270 | 275 | 20 | 31 | 17 | 20 | 12 | |
| ED | M | 108 | H | 123 | 122 | 258 | 272 | 266 | 273 | 271 | 269 | 274 | 282 | 278 | 282 | 276 | 290 | 16 | 25 | 18 | 16 | 40 | |
| FO | F | 119 | H | 120 | 134 | 252 | 259 | 276 | 266 | 263 | 268 | 289 | 272 | 280 | 284 | 270 | 271 | 34 | 62 | 26 | 36 | 65 | |
| GA | F | 119 | H | 130 | 132 | 266 | 269 | 263 | 277 | 271 | 268 | 267 | 265 | 282 | 294 | 256 | 264 | 48 | 17 | 33 | 14 | 51 | |
| GU | F | 108 | H | 127 | 128 | 251 | 254 | 262 | 267 | 254 | 268 | 269 | 279 | 275 | 279 | 275 | 279 | 60 | 70 | 21 | 25 | 63 | |
| QL | F | 106 | H | 115 | 123 | 260 | 267 | 296 | 275 | 275 | 273 | 278 | 278 | 290 | 297 | 265 | 282 | 26 | 39 | 12 | 12 | 39 | |
| HO | F | 116 | H | 110 | 97 | 250 | 246 | 258 | 260 | 249 | 253 | 252 | 282 | 268 | 269 | 262 | 282 | 23 | 23 | 14 | 15 | 37 | |
| LE | F | 110 | H | 135 | 122 | 260 | 260 | 267 | 267 | 260 | 274 | 274 | 282 | 276 | 284 | 276 | 282 | 55 | 33 | 30 | 30 | 50 | |
| LY | F | 112 | H | 99 | 117 | 247 | 257 | 262 | 273 | 252 | 257 | 276 | 255 | 275 | 273 | 266 | 275 | 23 | 38 | 20 | 22 | 120 | |
| MA | F | 111 | H | 126 | 110 | 250 | 254 | 270 | 267 | 266 | 266 | 274 | 264 | 274 | 276 | 272 | 277 | 58 | 42 | 30 | 31 | 78 | |
| HC | F | 119 | H | 121 | 121 | 254 | 262 | 271 | 267 | 217 | 268 | 260 | 282 | 278 | 284 | 270 | 280 | 32 | 37 | 31 | 37 | 72 | |
| PA | F | 120 | H | 127 | 127 | 265 | 267 | 265 | 267 | 273 | 271 | 271 | 277 | 271 | 279 | 262 | 281 | 61 | 67 | 18 | 35 | 65 | |
| PO | F | 110 | H | 114 | 114 | 252 | 250 | 263 | 271 | 261 | 263 | 303 | 275 | 276 | 280 | 284 | 299 | 61 | 72 | 71 | 71 | 105 | |
| SP | H | 115 | H | 121 | 121 | 254 | 258 | 276 | 271 | 273 | 269 | 274 | 284 | 282 | 278 | 272 | 278 | 62 | 62 | 26 | 37 | 55 | |
| TH | F | 114 | H | 125 | 132 | 258 | 260 | 271 | 273 | 259 | 263 | 292 | 290 | 281 | 282 | 280 | 286 | 36 | 46 | 20 | 35 | 77 | |
| WE | F | 110 | H | 116 | 108 | 259 | 258 | 264 | 266 | 264 | 266 | 252 | 252 | 253 | 253 | 259 | 267 | 276 | 31 | 45 | 24 | 30 | 62 |
| ZU | F | 107 | H | 132 | 126 | 252 | 249 | 262 | 264 | 269 | 280 | 294 | 254 | 292 | 270 | 273 | 269 | 281 | 266 | 273 | 15 | 27 | 82 |

CLASS CHARACTERISTICS CLASS SIZE=24 LOCATION=URBAN CLASS NUMBER= 3

| STUDENT CHARACTERISTICS | | MATH | | SCIENCE | | SOC STUD | | READING | | LISTEN | | WRITING | | FLUENCY | | FLEX | | ORIG | | ELAB | |
|-------------------------|-------|-------|------|---------|------|----------|------|---------|------|--------|------|---------|------|---------|------|------|------|------|------|------|--|
| S | E AGE | PRE | POST | PHE | POST | PHE | POST | PRE | POST | PHE | POST | PRE | POST | PHE | POST | PRE | POST | PHE | POST | | |
| NMF | X MOS | 120 | 267 | 274 | 273 | 275 | 284 | 289 | 297 | 293 | 297 | 288 | 305 | 299 | 309 | 29 | 39 | 77 | 99 | | |
| H1 | F 120 | 119 | 256 | 270 | 276 | 275 | 269 | 278 | 279 | 282 | 286 | 272 | 288 | 284 | 293 | 24 | 56 | 43 | 62 | | |
| H2 | F 120 | 119 | 276 | 278 | 302 | 268 | 287 | 298 | 303 | 286 | 297 | 288 | 305 | 299 | 305 | 25 | 51 | 42 | 79 | | |
| CU | F 121 | 119 | 272 | 272 | 296 | 280 | 281 | 281 | 294 | 299 | 301 | 278 | 286 | 284 | 293 | 29 | 29 | 87 | 80 | | |
| DO | F 121 | 119 | 267 | 272 | 271 | 273 | 264 | 269 | 283 | 293 | 284 | 282 | 274 | 284 | 294 | 21 | 32 | 83 | 51 | | |
| DU | F 122 | 115 | 102 | 266 | 257 | 261 | 269 | 266 | 274 | 277 | 279 | 278 | 269 | 280 | 275 | 21 | 32 | 64 | 130 | | |
| HA | F 122 | 115 | 102 | 267 | 272 | 275 | 277 | 281 | 285 | 292 | 297 | 291 | 295 | 292 | 295 | 26 | 35 | 55 | 57 | | |
| HE | F 122 | 115 | 102 | 276 | 296 | 284 | 284 | 284 | 290 | 290 | 291 | 282 | 282 | 282 | 282 | 21 | 32 | 63 | 113 | | |
| HO | F 122 | 115 | 102 | 269 | 287 | 275 | 278 | 273 | 278 | 289 | 291 | 281 | 291 | 291 | 291 | 26 | 35 | 55 | 125 | | |
| JO | F 123 | 116 | 251 | 263 | 269 | 263 | 269 | 268 | 271 | 280 | 290 | 293 | 293 | 294 | 295 | 26 | 35 | 55 | 99 | | |
| HA | F 123 | 116 | 251 | 263 | 273 | 273 | 273 | 273 | 273 | 280 | 290 | 293 | 293 | 294 | 295 | 27 | 35 | 55 | 99 | | |
| HE | F 123 | 116 | 251 | 263 | 273 | 273 | 273 | 273 | 273 | 280 | 290 | 293 | 293 | 294 | 295 | 27 | 35 | 55 | 99 | | |
| HO | F 123 | 116 | 251 | 263 | 273 | 273 | 273 | 273 | 273 | 280 | 290 | 293 | 293 | 294 | 295 | 27 | 35 | 55 | 99 | | |
| JO | F 124 | 116 | 251 | 263 | 273 | 273 | 273 | 273 | 273 | 280 | 290 | 293 | 293 | 294 | 295 | 27 | 35 | 55 | 99 | | |
| HA | F 124 | 116 | 251 | 263 | 273 | 273 | 273 | 273 | 273 | 280 | 290 | 293 | 293 | 294 | 295 | 27 | 35 | 55 | 99 | | |
| HE | F 124 | 116 | 251 | 263 | 273 | 273 | 273 | 273 | 273 | 280 | 290 | 293 | 293 | 294 | 295 | 27 | 35 | 55 | 99 | | |
| HO | F 124 | 116 | 251 | 263 | 273 | 273 | 273 | 273 | 273 | 280 | 290 | 293 | 293 | 294 | 295 | 27 | 35 | 55 | 99 | | |
| JO | F 125 | 117 | 251 | 264 | 271 | 275 | 281 | 275 | 292 | 290 | 294 | 286 | 298 | 284 | 296 | 28 | 36 | 56 | 62 | | |
| HA | F 125 | 117 | 251 | 264 | 271 | 275 | 281 | 275 | 292 | 290 | 294 | 286 | 298 | 284 | 296 | 28 | 36 | 56 | 62 | | |
| HE | F 125 | 117 | 251 | 264 | 271 | 275 | 281 | 275 | 292 | 290 | 294 | 286 | 298 | 284 | 296 | 28 | 36 | 56 | 62 | | |
| HO | F 125 | 117 | 251 | 264 | 271 | 275 | 281 | 275 | 292 | 290 | 294 | 286 | 298 | 284 | 296 | 28 | 36 | 56 | 62 | | |
| JO | F 126 | 118 | 251 | 264 | 271 | 275 | 281 | 275 | 292 | 290 | 294 | 286 | 298 | 284 | 296 | 28 | 36 | 56 | 62 | | |
| HA | F 126 | 118 | 251 | 264 | 271 | 275 | 281 | 275 | 292 | 290 | 294 | 286 | 298 | 284 | 296 | 28 | 36 | 56 | 62 | | |
| HE | F 126 | 118 | 251 | 264 | 271 | 275 | 281 | 275 | 292 | 290 | 294 | 286 | 298 | 284 | 296 | 28 | 36 | 56 | 62 | | |
| HO | F 126 | 118 | 251 | 264 | 271 | 275 | 281 | 275 | 292 | 290 | 294 | 286 | 298 | 284 | 296 | 28 | 36 | 56 | 62 | | |
| JO | F 127 | 119 | 251 | 264 | 271 | 275 | 281 | 275 | 292 | 290 | 294 | 286 | 298 | 284 | 296 | 28 | 36 | 56 | 62 | | |
| HA | F 127 | 119 | 251 | 264 | 271 | 275 | 281 | 275 | 292 | 290 | 294 | 286 | 298 | 284 | 296 | 28 | 36 | 56 | 62 | | |
| HE | F 127 | 119 | 251 | 264 | 271 | 275 | 281 | 275 | 292 | 290 | 294 | 286 | 298 | 284 | 296 | 28 | 36 | 56 | 62 | | |
| HO | F 127 | 119 | 251 | 264 | 271 | 275 | 281 | 275 | 292 | 290 | 294 | 286 | 298 | 284 | 296 | 28 | 36 | 56 | 62 | | |
| JO | F 128 | 120 | 251 | 264 | 271 | 275 | 281 | 275 | 292 | 290 | 294 | 286 | 298 | 284 | 296 | 28 | 36 | 56 | 62 | | |
| HA | F 128 | 120 | 251 | 264 | 271 | 275 | 281 | 275 | 292 | 290 | 294 | 286 | 298 | 284 | 296 | 28 | 36 | 56 | 62 | | |
| HE | F 128 | 120 | 251 | 264 | 271 | 275 | 281 | 275 | 292 | 290 | 294 | 286 | 298 | 284 | 296 | 28 | 36 | 56 | 62 | | |
| HO | F 128 | 120 | 251 | 264 | 271 | 275 | 281 | 275 | 292 | 290 | 294 | 286 | 298 | 284 | 296 | 28 | 36 | 56 | 62 | | |
| JO | F 129 | 121 | 251 | 264 | 271 | 275 | 281 | 275 | 292 | 290 | 294 | 286 | 298 | 284 | 296 | 28 | 36 | 56 | 62 | | |
| HA | F 129 | 121 | 251 | 264 | 271 | 275 | 281 | 275 | 292 | 290 | 294 | 286 | 298 | 284 | 296 | 28 | 36 | 56 | 62 | | |
| HE | F 129 | 121 | 251 | 264 | 271 | 275 | 281 | 275 | 292 | 290 | 294 | 286 | 298 | 284 | 296 | 28 | 36 | 56 | 62 | | |
| HO | F 129 | 121 | 251 | 264 | 271 | 275 | 281 | 275 | 292 | 290 | 294 | 286 | 298 | 284 | 296 | 28 | 36 | 56 | 62 | | |
| JO | F 130 | 122 | 251 | 264 | 271 | 275 | 281 | 275 | 292 | 290 | 294 | 286 | 298 | 284 | 296 | 28 | 36 | 56 | 62 | | |
| HA | F 130 | 122 | 251 | 264 | 271 | 275 | 281 | 275 | 292 | 290 | 294 | 286 | 298 | 284 | 296 | 28 | 36 | 56 | 62 | | |
| HE | F 130 | 122 | 251 | 264 | 271 | 275 | 281 | 275 | 292 | 290 | 294 | 286 | 298 | 284 | 296 | 28 | 36 | 56 | 62 | | |
| HO | F 130 | 122 | 251 | 264 | 271 | 275 | 281 | 275 | 292 | 290 | 294 | 286 | 298 | 284 | 296 | 28 | 36 | 56 | 62 | | |
| JO | F 131 | 123 | 251 | 264 | 271 | 275 | 281 | 275 | 292 | 290 | 294 | 286 | 298 | 284 | 296 | 28 | 36 | 56 | 62 | | |
| HA | F 131 | 123 | 251 | 264 | 271 | 275 | 281 | 275 | 292 | 290 | 294 | 286 | 298 | 284 | 296 | 28 | 36 | 56 | 62 | | |
| HE | F 131 | 123 | 251 | 264 | 271 | 275 | 281 | 275 | 292 | 290 | 294 | 286 | 298 | 284 | 296 | 28 | 36 | 56 | 62 | | |
| HO | F 131 | 123 | 251 | 264 | 271 | 275 | 281 | 275 | 292 | 290 | 294 | 286 | 298 | 284 | 296 | 28 | 36 | 56 | 62 | | |
| JO | F 132 | 124 | 251 | 264 | 271 | 275 | 281 | 275 | 292 | 290 | 294 | 286 | 298 | 284 | 296 | 28 | 36 | 56 | 62 | | |
| HA | F 132 | 124</ | | | | | | | | | | | | | | | | | | | |

CLASS CHARACTERISTICS CLASS SIZE 23 LOCATION RURAL CLASS NUMBER 4

| STUDENT NAME X HOS | AGE | GRADE | STUDENT CHARACTERISTICS IC | MATH | | SCIENCE | | SOC STUD | | READING | | LISTEN | | WRITING | | |
|--------------------------|-----|-------|----------------------------------|------|------|---------|------|----------|------|---------|------|--------|------|---------|------|-----|
| | | | | PRE | POST | PRE | POST | PRE | POST | PRE | POST | PRE | POST | PRE | POST | |
| AN | 11 | 4 | MUNIVERA VERO | 252 | 258 | 266 | 260 | 259 | 251 | 251 | 259 | 265 | 253 | 274 | 256 | 268 |
| BL | 11 | 4 | BR | 261 | 262 | 264 | 251 | 265 | 263 | 263 | 269 | 269 | 281 | 276 | 275 | 279 |
| CA | 11 | 4 | CA | 259 | 251 | 266 | 260 | 263 | 260 | 263 | 260 | 253 | 260 | 276 | 269 | 273 |
| CH | 11 | 4 | CH | 254 | 258 | 258 | 260 | 263 | 260 | 261 | 261 | 263 | 260 | 275 | 271 | 286 |
| CO | 11 | 4 | CO | 260 | 265 | 265 | 273 | 263 | 263 | 261 | 257 | 269 | 269 | 278 | 276 | 280 |
| CR | 11 | 4 | CR | 22 | 22 | 269 | 270 | 269 | 269 | 261 | 257 | 261 | 269 | 274 | 279 | 280 |
| DA | 11 | 4 | DA | 265 | 263 | 265 | 263 | 266 | 266 | 261 | 257 | 266 | 267 | 278 | 271 | 281 |
| GU | 11 | 4 | GU | 261 | 264 | 267 | 264 | 263 | 263 | 273 | 273 | 281 | 287 | 294 | 298 | 302 |
| JU | 11 | 4 | JU | 265 | 270 | 270 | 270 | 271 | 271 | 273 | 273 | 281 | 287 | 296 | 294 | 302 |
| KH | 11 | 4 | KH | 261 | 272 | 265 | 267 | 270 | 270 | 278 | 278 | 281 | 284 | 284 | 284 | 291 |
| NF | 11 | 4 | NF | 12 | 12 | 260 | 260 | 262 | 262 | 255 | 261 | 263 | 272 | 272 | 275 | 280 |
| PO | 11 | 4 | PO | 12 | 12 | 265 | 270 | 265 | 270 | 271 | 271 | 276 | 276 | 278 | 278 | 281 |
| RE | 11 | 4 | RE | 12 | 12 | 264 | 267 | 267 | 267 | 261 | 271 | 267 | 271 | 274 | 274 | 278 |
| SI | 11 | 4 | SI | 12 | 12 | 260 | 260 | 264 | 264 | 261 | 261 | 267 | 267 | 270 | 270 | 274 |
| TH | 11 | 4 | TH | 12 | 12 | 267 | 267 | 267 | 267 | 269 | 269 | 273 | 273 | 275 | 275 | 278 |
| TO | 11 | 4 | TO | 12 | 12 | 266 | 266 | 266 | 266 | 264 | 264 | 269 | 269 | 271 | 271 | 274 |
| WE | 11 | 4 | WE | 12 | 12 | 265 | 265 | 265 | 265 | 263 | 263 | 267 | 267 | 270 | 270 | 273 |

CLASS CHARACTERISTICS
GRADE 4 CLASS SIZE = 35 LOCATION: MURRAY CLASS NUMBER: 3

| STUDENT NAME | CHARACTERISTICS AGE | MATH | | SCIENCE | | SOC STUD | | READING | | LISTEN | | WRITING | | FLUENCY | | FLEX | | ORIG | | ELAB | |
|-----------------|------------------------|------|------|---------|------|----------|---------|---------|------|--------|------|---------|------|---------|------|------|------|------|------|------|------|
| | | PRE | POST | PRE | POST | PRE | POST | PRE | POST | PRE | POST | PRE | POST | PRE | POST | PRE | POST | PRE | POST | PRE | POST |
| 121 | 110 | 249 | 251 | 260 | 260 | 251 | 269 | 270 | 279 | 272 | 262 | 270 | 309 | 78 | 80 | 74 | 74 | 47 | 70 | 78 | 82 |
| 121 | 110 | 242 | 242 | 252 | 257 | 271 | 271 | 260 | 272 | 274 | 266 | 266 | 266 | 74 | 74 | 41 | 41 | 37 | 40 | 97 | 120 |
| 121 | 112 | 259 | 245 | 259 | 261 | 263 | 271 | 280 | 290 | 276 | 273 | 267 | 275 | 78 | 94 | 78 | 94 | 118 | 103 | 117 | 23 |
| 123 | 113 | 256 | 256 | 266 | 267 | 266 | 268 | 260 | 279 | 274 | 264 | 264 | 264 | 71 | 71 | 62 | 62 | 60 | 60 | 93 | 95 |
| 123 | 114 | 257 | 256 | 276 | 264 | 254 | 265 | 257 | 275 | 279 | 264 | 264 | 264 | 71 | 71 | 62 | 62 | 60 | 60 | 93 | 95 |
| 123 | 110 | 257 | 250 | 256 | 252 | 240 | 259 | 240 | 272 | 261 | 253 | 253 | 253 | 71 | 71 | 62 | 62 | 60 | 60 | 93 | 95 |
| 123 | 112 | 257 | 256 | 264 | 272 | 263 | 266 | 265 | 273 | 276 | 284 | 284 | 284 | 71 | 71 | 62 | 62 | 60 | 60 | 93 | 95 |
| 123 | 113 | 256 | 256 | 266 | 267 | 266 | 268 | 260 | 279 | 275 | 280 | 280 | 280 | 71 | 71 | 62 | 62 | 60 | 60 | 93 | 95 |
| 123 | 114 | 256 | 256 | 266 | 267 | 266 | 268 | 260 | 279 | 275 | 284 | 284 | 284 | 71 | 71 | 62 | 62 | 60 | 60 | 93 | 95 |
| 123 | 110 | 257 | 250 | 256 | 252 | 240 | 259 | 240 | 272 | 261 | 253 | 253 | 253 | 71 | 71 | 62 | 62 | 60 | 60 | 93 | 95 |
| 123 | 112 | 257 | 250 | 256 | 252 | 240 | 259 | 240 | 272 | 261 | 253 | 253 | 253 | 71 | 71 | 62 | 62 | 60 | 60 | 93 | 95 |
| 123 | 113 | 256 | 256 | 266 | 267 | 266 | 268 | 260 | 279 | 275 | 284 | 284 | 284 | 71 | 71 | 62 | 62 | 60 | 60 | 93 | 95 |
| 123 | 114 | 256 | 256 | 266 | 267 | 266 | 268 | 260 | 279 | 275 | 284 | 284 | 284 | 71 | 71 | 62 | 62 | 60 | 60 | 93 | 95 |
| 123 | 110 | 257 | 250 | 256 | 252 | 240 | 259 | 240 | 272 | 261 | 253 | 253 | 253 | 71 | 71 | 62 | 62 | 60 | 60 | 93 | 95 |
| 123 | 112 | 257 | 250 | 256 | 252 | 240 | 259 | 240 | 272 | 261 | 253 | 253 | 253 | 71 | 71 | 62 | 62 | 60 | 60 | 93 | 95 |
| 123 | 113 | 256 | 256 | 266 | 267 | 266 | 268 | 260 | 279 | 275 | 284 | 284 | 284 | 71 | 71 | 62 | 62 | 60 | 60 | 93 | 95 |
| 123 | 114 | 256 | 256 | 266 | 267 | 266 | 268 | 260 | 279 | 275 | 284 | 284 | 284 | 71 | 71 | 62 | 62 | 60 | 60 | 93 | 95 |
| 123 | 110 | 257 | 250 | 256 | 252 | 240 | 259 | 240 | 272 | 261 | 253 | 253 | 253 | 71 | 71 | 62 | 62 | 60 | 60 | 93 | 95 |
| 123 | 112 | 257 | 250 | 256 | 252 | 240 | 259 | 240 | 272 | 261 | 253 | 253 | 253 | 71 | 71 | 62 | 62 | 60 | 60 | 93 | 95 |
| 123 | 113 | 256 | 256 | 266 | 267 | 266 | 268 | 260 | 279 | 275 | 284 | 284 | 284 | 71 | 71 | 62 | 62 | 60 | 60 | 93 | 95 |
| 123 | 114 | 256 | 256 | 266 | 267 | 266 | 268 | 260 | 279 | 275 | 284 | 284 | 284 | 71 | 71 | 62 | 62 | 60 | 60 | 93 | 95 |
| 123 | 110 | 257 | 250 | 256 | 252 | 240 | 259 | 240 | 272 | 261 | 253 | 253 | 253 | 71 | 71 | 62 | 62 | 60 | 60 | 93 | 95 |
| 123 | 112 | 257 | 250 | 256 | 252 | 240 | 259 | 240 | 272 | 261 | 253 | 253 | 253 | 71 | 71 | 62 | 62 | 60 | 60 | 93 | 95 |
| 123 | 113 | 256 | 256 | 266 | 267 | 266 | 268 | 260 | 279 | 275 | 284 | 284 | 284 | 71 | 71 | 62 | 62 | 60 | 60 | 93 | 95 |
| 123 | 114 | 256 | 256 | 266 | 267 | 266 | 268 | 260 | 279 | 275 | 284 | 284 | 284 | 71 | 71 | 62 | 62 | 60 | 60 | 93 | 95 |
| 123 | 110 | 257 | 250 | 256 | 252 | 240 | 259 | 240 | 272 | 261 | 253 | 253 | 253 | 71 | 71 | 62 | 62 | 60 | 60 | 93 | 95 |
| 123 | 112 | 257 | 250 | 256 | 252 | 240 | 259 | 240 | 272 | 261 | 253 | 253 | 253 | 71 | 71 | 62 | 62 | 60 | 60 | 93 | 95 |
| 123 | 113 | 256 | 256 | 266 | 267 | 266 | 268 | 260 | 279 | 275 | 284 | 284 | 284 | 71 | 71 | 62 | 62 | 60 | 60 | 93 | 95 |
| 123 | 114 | 256 | 256 | 266 | 267 | 266 | 268 | 260 | 279 | 275 | 284 | 284 | 284 | 71 | 71 | 62 | 62 | 60 | 60 | 93 | 95 |
| 123 | 110 | 257 | 250 | 256 | 252 | 240 | 259 | 240 | 272 | 261 | 253 | 253 | 253 | 71 | 71 | 62 | 62 | 60 | 60 | 93 | 95 |
| 123 | 112 | 257 | 250 | 256 | 252 | 240 | 259 | 240 | 272 | 261 | 253 | 253 | 253 | 71 | 71 | 62 | 62 | 60 | 60 | 93 | 95 |
| 123 | 113 | 256 | 256 | 266 | 267 | 266 | 268 | 260 | 279 | 275 | 284 | 284 | 284 | 71 | 71 | 62 | 62 | 60 | 60 | 93 | 95 |
| 123 | 114 | 256 | 256 | 266 | 267 | 266 | 268 | 260 | 279 | 275 | 284 | 284 | 284 | 71 | 71 | 62 | 62 | 60 | 60 | 93 | 95 |
| 123 | 110 | 257 | 250 | 256 | 252 | 240 | 259 | 240 | 272 | 261 | 253 | 253 | 253 | 71 | 71 | 62 | 62 | 60 | 60 | 93 | 95 |
| 123 | 112 | 257 | 250 | 256 | 252 | 240 | 259 | 240 | 272 | 261 | 253 | 253 | 253 | 71 | 71 | 62 | 62 | 60 | 60 | 93 | 95 |
| 123 | 113 | 256 | 256 | 266 | 267 | 266 | 268 | 260 | 279 | 275 | 284 | 284 | 284 | 71 | 71 | 62 | 62 | 60 | 60 | 93 | 95 |
| 123 | 114 | 256 | 256 | 266 | 267 | 266 | 268 | 260 | 279 | 275 | 284 | 284 | 284 | 71 | 71 | 62 | 62 | 60 | 60 | 93 | 95 |
| 123 | 110 | 257 | 250 | 256 | 252 | 240 | 259 | 240 | 272 | 261 | 253 | 253 | 253 | 71 | 71 | 62 | 62 | 60 | 60 | 93 | 95 |
| 123 | 112 | 257 | 250 | 256 | 252 | 240 | 259 | 240 | 272 | 261 | 253 | 253 | 253 | 71 | 71 | 62 | 62 | 60 | 60 | 93 | 95 |
| 123 | 113 | 256 | 256 | 266 | 267 | 266 | 268 | 260 | 279 | 275 | 284 | 284 | 284 | 71 | 71 | 62 | 62 | 60 | 60 | 93 | 95 |
| 123 | 114 | 256 | 256 | 266 | 267 | 266 | 268 | 260 | 279 | 275 | 284 | 284 | 284 | 71 | 71 | 62 | 62 | 60 | 60 | 93 | 95 |
| 123 | 110 | 257 | 250 | 256 | 252 | 240 | 259 | 240 | 272 | 261 | 253 | 253 | 253 | 71 | 71 | 62 | 62 | 60 | 60 | 93 | 95 |
| 123 | 112 | 257 | 250 | 256 | 252 | 240 | 259</td | | | | | | | | | | | | | | |

CLASS CHARACTERISTICS
GRADE=6 CLASS SIZE=24 LOCATION=URBAN CLASS NUMBER=6

| STUDENT CHARACTERISTICS | | MATH | | SCIENCE | | SOC STUD | | READING | | LISTEN | | WRITING | | FLUENCY | | FLEX | | ORIG | | ELAB | | | | | |
|-------------------------|------|------|-----|---------|----------|----------|-----|---------|-----|--------|------|---------|-----|---------|------|------|-----|------|------|------|-----|-----|------|----|----|
| S | NAME | E | AGE | P | NON-VERB | R | POS | P | PRE | P | POST | P | PRE | P | POST | P | PRE | P | POST | P | PRE | P | POST | | |
| 129 | AL | M | 116 | 266 | 282 | 273 | 279 | 269 | 284 | 280 | 293 | 295 | 293 | 295 | 296 | 291 | 291 | 293 | 294 | 298 | 299 | 129 | 170 | | |
| 116 | MR | F | 116 | 278 | 279 | 275 | 310 | 280 | 284 | 284 | 290 | 290 | 295 | 295 | 296 | 290 | 290 | 293 | 294 | 296 | 296 | 32 | 59 | | |
| 118 | HA | F | 118 | 269 | 269 | 269 | 287 | 288 | 284 | 290 | 290 | 295 | 295 | 294 | 294 | 296 | 296 | 296 | 296 | 296 | 296 | 36 | 64 | | |
| 116 | BL | M | 116 | 274 | 276 | 293 | 287 | 288 | 284 | 273 | 284 | 272 | 292 | 292 | 292 | 290 | 290 | 293 | 294 | 295 | 295 | 36 | 62 | | |
| 122 | GU | F | 126 | 264 | 279 | 273 | 324 | 273 | 284 | 288 | 272 | 292 | 301 | 306 | 275 | 280 | 280 | 280 | 284 | 285 | 285 | 285 | 36 | 62 | |
| 125 | HR | F | 125 | 269 | 276 | 273 | 283 | 266 | 292 | 290 | 296 | 296 | 288 | 288 | 288 | 291 | 294 | 294 | 294 | 294 | 294 | 294 | 36 | 62 | |
| 116 | DO | M | 121 | 267 | 272 | 286 | 281 | 281 | 284 | 298 | 297 | 297 | 297 | 297 | 298 | 284 | 284 | 284 | 284 | 284 | 284 | 284 | 36 | 62 | |
| 120 | FR | F | 125 | 269 | 270 | 280 | 302 | 280 | 292 | 293 | 319 | 309 | 306 | 320 | 298 | 298 | 298 | 298 | 298 | 298 | 298 | 298 | 36 | 62 | |
| 130 | FU | F | 130 | 259 | 263 | 266 | 279 | 257 | 265 | 268 | 263 | 268 | 263 | 268 | 263 | 268 | 262 | 262 | 262 | 262 | 262 | 262 | 262 | 36 | 62 |
| 132 | GR | F | 132 | 269 | 269 | 275 | 264 | 264 | 266 | 266 | 266 | 266 | 266 | 266 | 266 | 266 | 266 | 266 | 266 | 266 | 266 | 266 | 266 | 36 | 62 |
| 120 | JA | F | 133 | 266 | 274 | 293 | 273 | 273 | 278 | 271 | 278 | 290 | 292 | 292 | 292 | 288 | 288 | 288 | 288 | 288 | 288 | 288 | 288 | 36 | 62 |
| 125 | NC | F | 146 | 124 | 123 | 272 | 274 | 288 | 273 | 291 | 296 | 287 | 283 | 283 | 291 | 303 | 301 | 303 | 301 | 303 | 301 | 301 | 301 | 36 | 62 |
| 122 | NO | F | 135 | 128 | 122 | 282 | 279 | 288 | 324 | 271 | 282 | 284 | 302 | 303 | 301 | 306 | 291 | 288 | 288 | 288 | 288 | 288 | 288 | 36 | 62 |
| 117 | NP | F | 137 | 119 | 117 | 264 | 269 | 269 | 269 | 257 | 266 | 296 | 303 | 286 | 296 | 296 | 299 | 299 | 299 | 299 | 299 | 299 | 299 | 36 | 62 |
| 118 | NP | F | 140 | 125 | 118 | 269 | 282 | 269 | 296 | 296 | 296 | 296 | 296 | 296 | 296 | 296 | 296 | 296 | 296 | 296 | 296 | 296 | 296 | 36 | 62 |
| 128 | SH | F | 130 | 128 | 95 | 299 | 269 | 263 | 276 | 266 | 275 | 284 | 292 | 289 | 289 | 289 | 289 | 289 | 289 | 289 | 289 | 289 | 289 | 36 | 62 |
| 124 | SK | F | 135 | 124 | 100 | 266 | 270 | 266 | 263 | 262 | 271 | 293 | 295 | 295 | 295 | 295 | 295 | 295 | 295 | 295 | 295 | 295 | 295 | 36 | 62 |
| 121 | SL | F | 136 | 121 | 111 | 267 | 274 | 284 | 296 | 278 | 288 | 287 | 307 | 284 | 293 | 293 | 293 | 293 | 293 | 293 | 293 | 293 | 293 | 36 | 62 |
| 123 | TA | F | 139 | 127 | 123 | 272 | 282 | 284 | 279 | 258 | 292 | 296 | 303 | 291 | 302 | 302 | 302 | 302 | 302 | 302 | 302 | 302 | 302 | 36 | 62 |
| 116 | VA | F | 141 | 116 | 112 | 292 | 287 | 293 | 324 | 281 | 300 | 287 | 303 | 304 | 311 | 305 | 294 | 294 | 294 | 294 | 294 | 294 | 294 | 36 | 62 |
| 124 | WH | F | 142 | 119 | 119 | 272 | 282 | 277 | 310 | 281 | 292 | 284 | 298 | 301 | 299 | 299 | 299 | 299 | 299 | 299 | 299 | 299 | 299 | 36 | 62 |
| 127 | WH | F | 143 | 122 | 122 | 269 | 274 | 269 | 274 | 266 | 279 | 278 | 288 | 288 | 288 | 288 | 288 | 288 | 288 | 288 | 288 | 288 | 288 | 36 | 62 |
| 119 | WY | F | 144 | 124 | 124 | 276 | 272 | 276 | 324 | 280 | 284 | 279 | 278 | 278 | 278 | 278 | 278 | 278 | 278 | 278 | 278 | 278 | 278 | 36 | 62 |
| 121 | WY | F | 145 | 127 | 127 | 267 | 272 | 273 | 324 | 281 | 287 | 281 | 273 | 273 | 273 | 273 | 273 | 273 | 273 | 273 | 273 | 273 | 273 | 36 | 62 |

**CLASS CHARACTERISTICS
GRADE#6 CLASS SIZE#23 LOCATION:URRAN CLASS NUMBER# 7**

| STUDENT CHARACTERISTICS | | | MATH | | | SCIENCE | | | SOC STUD | | | LISTEN | | | WRITING | | | FLUENCY | | | FLEX | | | OPIC | | | ELAB | | |
|-------------------------|-------|---------------|------|------|-----|---------|------|-----|----------|------|-----|--------|------|-----|---------|------|-----|---------|------|-----|------|------|-----|------|------|-----|------|------|--|
| S | NAME | NON-VERB VEPB | PRE | POST | PKE | PRE | POST | PKE | PRE | POST | PKE | PRE | POST | PKE | PRE | POST | PKE | PRE | POST | PKE | PRE | POST | PKE | PRE | POST | PKE | PRE | POST | |
| AL | F 142 | 115 | 112 | 266 | 270 | 269 | 262 | 273 | 269 | 290 | 298 | 286 | 293 | 291 | 298 | 278 | 278 | 278 | 40 | 42 | 40 | 26 | 18 | 41 | 24 | 32 | 37 | | |
| AT | M 133 | 113 | 117 | 272 | 272 | 271 | 283 | 281 | 275 | 279 | 283 | 288 | 288 | 286 | 286 | 284 | 286 | 286 | 40 | 38 | 38 | 22 | 31 | 20 | 38 | 45 | 50 | | |
| UA | M 141 | 118 | 122 | 272 | 279 | 271 | 279 | 271 | 284 | 279 | 303 | 286 | 290 | 286 | 286 | 276 | 276 | 276 | 48 | 52 | 48 | 29 | 41 | 20 | 48 | 58 | 63 | | |
| HO | F 142 | 124 | 121 | 272 | 282 | 280 | 283 | 281 | 284 | 284 | 286 | 298 | 278 | 323 | 278 | 276 | 276 | 54 | 41 | 41 | 38 | 45 | 41 | 38 | 45 | 58 | 63 | | |
| BR | F 135 | 131 | 130 | 246 | 274 | 277 | 291 | 278 | 281 | 296 | 307 | 309 | 311 | 291 | 294 | 42 | 42 | 42 | 51 | 51 | 51 | 31 | 32 | 31 | 32 | 51 | 50 | | |
| CO | M 136 | 129 | 127 | 272 | 279 | 260 | 287 | 275 | 278 | 292 | 298 | 297 | 288 | 269 | 284 | 55 | 55 | 55 | 49 | 51 | 51 | 37 | 33 | 33 | 33 | 62 | 53 | | |
| GU | F 132 | 134 | 134 | 259 | 264 | 275 | 269 | 268 | 275 | 296 | 283 | 276 | 303 | 286 | 291 | 54 | 54 | 57 | 33 | 30 | 31 | 39 | 31 | 39 | 31 | 39 | 99 | | |
| GR | F 136 | 127 | 139 | 269 | 276 | 277 | 267 | 262 | 269 | 294 | 298 | 284 | 284 | 284 | 291 | 286 | 51 | 51 | 66 | 28 | 34 | 35 | 29 | 29 | 35 | 35 | 80 | 69 | |
| GS | P 193 | 119 | 133 | 276 | 276 | 273 | 267 | 263 | 278 | 272 | 298 | 278 | 279 | 284 | 280 | 77 | 77 | 70 | 45 | 33 | 49 | 50 | 50 | 59 | 59 | 59 | 64 | | |
| LE | F 135 | 126 | 109 | 266 | 261 | 269 | 283 | 273 | 284 | 287 | 292 | 286 | 292 | 278 | 284 | 24 | 24 | 51 | 14 | 26 | 18 | 38 | 26 | 18 | 38 | 26 | 64 | | |
| HO | H 139 | 127 | 114 | 272 | 274 | 275 | 283 | 268 | 281 | 284 | 295 | 294 | 299 | 286 | 284 | 65 | 65 | 101 | 30 | 40 | 47 | 31 | 30 | 40 | 47 | 79 | 63 | | |
| SC | P 134 | 121 | 121 | 276 | 274 | 271 | 2A3 | 275 | 292 | 284 | 298 | 304 | 293 | 284 | 274 | 63 | 63 | 63 | 33 | 31 | 35 | 30 | 31 | 35 | 30 | 37 | 37 | | |
| SH | F 140 | 127 | 134 | 276 | 274 | 262 | 296 | 292 | 292 | 272 | 307 | 297 | 299 | 280 | 282 | 42 | 74 | 33 | 43 | 32 | 60 | 60 | 60 | 60 | 60 | 63 | | | |
| SI | F 140 | 120 | 124 | 258 | 259 | 271 | 269 | 266 | 273 | 290 | 292 | 291 | 288 | 299 | 286 | 0 | 0 | 80 | 33 | 33 | 33 | 35 | 35 | 35 | 35 | 35 | 35 | | |
| SP | H 137 | 122 | 117 | 276 | 279 | 273 | 291 | 263 | 292 | 287 | 292 | 291 | 282 | 282 | 274 | 56 | 56 | 61 | 27 | 32 | 22 | 31 | 30 | 40 | 40 | 40 | 40 | | |
| ST | H 135 | 129 | 139 | 282 | 276 | 275 | 302 | 292 | 284 | 299 | 311 | 288 | 311 | 284 | 286 | 53 | 53 | 57 | 24 | 23 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | | |
| SU | F 134 | 132 | 131 | 269 | 282 | 280 | 317 | 275 | 278 | 282 | 298 | 286 | 299 | 291 | 294 | 18 | 18 | 51 | 19 | 22 | 23 | 39 | 47 | 51 | 51 | 51 | | | |
| WA | F 139 | 127 | 135 | 278 | 274 | 273 | 273 | 269 | 266 | 269 | 281 | 279 | 292 | 286 | 282 | 50 | 50 | 62 | 30 | 39 | 37 | 61 | 74 | 69 | 69 | 69 | | | |

CLASS CHARACTERISTICS CLASS SIZE=13 LOCATION=RURAL CLASS NUMBER= 8

| STUDENT CHARACTERISTICS IN | | | MATH | | | SCIENCE SOC STUD | | | READING | | | LISTEN | | | WRITING | | | FLUENCY | | | FLEX | | | ORIG | | | ELAB | | |
|----------------------------|-----|-----|------|------|----------|------------------|---------|----------|---------|---------|----------|---------|---------|----------|---------|------|----------|---------|------|----------|------|------|----------|------|------|----------|------|------|--|
| S | E | AGE | PRE | POST | PRE POST | PRE | POST | PRE POST | PRE | POST | PRE POST | PRE | POST | PRE POST | PRE | POST | PRE POST | PRE | POST | PRE POST | PRE | POST | PRE POST | PRE | POST | PRE POST | PRE | POST | |
| AD F 131 | 115 | 125 | 258 | 270 | 279 288 | 283 284 | 278 284 | 286 286 | 277 286 | 274 294 | 279 299 | 288 288 | 286 286 | 279 299 | 36 | 54 | 28 | 116 | 150 | | | | | | | | | | |
| AK F 126 | 134 | 118 | 265 | 264 | 283 284 | 277 281 | 281 281 | 286 286 | 277 286 | 288 294 | 293 304 | 288 288 | 286 286 | 293 304 | 36 | 32 | 39 | 115 | 86 | | | | | | | | | | |
| CL M 123 | 133 | 129 | 270 | 276 | 283 277 | 277 281 | 278 290 | 286 290 | 278 290 | 286 294 | 290 299 | 282 301 | 291 299 | 291 299 | 290 299 | 18 | 27 | 21 | 29 | 47 | | | | | | | | | |
| DA F 128 | 136 | 126 | 258 | 266 | 267 263 | 268 275 | 268 275 | 286 296 | 268 275 | 286 294 | 286 294 | 286 294 | 286 294 | 286 294 | 286 294 | 72 | 92 | 37 | 36 | 65 | | | | | | | | | |
| FR M 132 | 127 | 129 | 263 | 265 | 291 284 | 292 281 | 295 296 | 282 296 | 291 281 | 291 299 | 293 305 | 291 299 | 291 299 | 291 299 | 291 299 | 31 | 45 | 36 | 36 | 76 | | | | | | | | | |
| GA M 122 | 134 | 140 | 267 | 272 | 273 288 | 281 275 | 286 284 | 282 284 | 273 280 | 283 284 | 283 299 | 282 297 | 269 305 | 269 305 | 269 305 | 48 | 69 | 24 | 36 | 46 | | | | | | | | | |
| JE M 121 | 134 | 136 | 266 | 278 | 273 280 | 273 280 | 273 284 | 283 299 | 283 299 | 282 291 | 286 295 | 286 295 | 282 291 | 286 295 | 286 295 | 56 | 64 | 32 | 36 | 45 | | | | | | | | | |
| JF M 128 | 99 | 118 | 260 | 266 | 259 263 | 254 261 | 267 275 | 276 275 | 267 275 | 274 295 | 276 282 | 274 295 | 276 282 | 274 295 | 53 | 51 | 30 | 32 | 33 | | | | | | | | | | |
| JO F 128 | 99 | 118 | 267 | 274 | 283 288 | 269 275 | 289 290 | 290 290 | 289 290 | 294 294 | 290 294 | 294 294 | 290 294 | 294 294 | 65 | 82 | 38 | 38 | 49 | | | | | | | | | | |
| KI F 129 | 131 | 134 | 267 | 274 | 291 284 | 296 281 | 278 293 | 288 293 | 278 293 | 288 294 | 288 294 | 288 294 | 288 294 | 288 294 | 92 | 92 | 42 | 39 | 53 | | | | | | | | | | |
| MC F 127 | 134 | 136 | 269 | 269 | 291 284 | 296 281 | 296 281 | 288 294 | 296 281 | 288 294 | 288 294 | 288 294 | 288 294 | 288 294 | 92 | 92 | 64 | 64 | 99 | | | | | | | | | | |
| MO H 127 | 135 | 100 | 261 | 266 | 296 284 | 268 275 | 289 293 | 296 293 | 289 293 | 296 284 | 288 286 | 288 286 | 288 286 | 288 286 | 41 | 43 | 29 | 18 | 25 | | | | | | | | | | |
| PE F 118 | 132 | 119 | 257 | 274 | 263 284 | 263 269 | 260 282 | 278 282 | 275 282 | 275 288 | 278 288 | 275 288 | 275 288 | 275 288 | 53 | 61 | 33 | 33 | 44 | | | | | | | | | | |
| PF F 128 | 132 | 127 | 254 | 258 | 271 280 | 262 271 | 286 293 | 273 288 | 274 286 | 274 305 | 274 288 | 274 288 | 274 288 | 274 288 | 78 | 82 | 35 | 35 | 78 | | | | | | | | | | |
| PO M 126 | 125 | 128 | 258 | 267 | 260 273 | 263 273 | 263 273 | 263 290 | 263 273 | 281 279 | 275 305 | 288 305 | 288 305 | 288 305 | 46 | 65 | 31 | 41 | 41 | | | | | | | | | | |
| RO M 119 | 135 | 138 | 258 | 269 | 276 271 | 262 273 | 274 282 | 279 282 | 274 282 | 279 276 | 260 273 | 42 | 63 | 30 | 35 | 36 | 47 | 58 | 56 | | | | | | | | | | |
| RP F 130 | 132 | 132 | 270 | 274 | 283 297 | 283 297 | 283 297 | 283 299 | 283 297 | 280 291 | 280 291 | 280 291 | 280 291 | 280 291 | 60 | 60 | 40 | 37 | 39 | | | | | | | | | | |
| ST F 129 | 135 | 130 | 260 | 263 | 273 280 | 263 271 | 278 287 | 278 287 | 278 287 | 279 277 | 279 282 | 279 277 | 279 277 | 279 277 | 62 | 85 | 31 | 33 | 43 | | | | | | | | | | |
| SU M 129 | 122 | 123 | 258 | 272 | 273 284 | 273 284 | 273 284 | 292 296 | 273 284 | 280 288 | 296 291 | 280 288 | 296 291 | 280 288 | 58 | 76 | 31 | 38 | 43 | | | | | | | | | | |
| TR F 122 | 128 | 124 | 250 | 263 | 264 277 | 262 269 | 262 269 | 271 290 | 262 269 | 274 282 | 290 286 | 274 282 | 290 286 | 274 282 | 58 | 65 | 35 | 33 | 41 | | | | | | | | | | |
| WJ F 129 | 128 | 137 | 259 | 269 | 279 284 | 278 284 | 278 284 | 283 296 | 279 284 | 284 296 | 299 309 | 286 296 | 299 309 | 286 296 | 52 | 68 | 29 | 36 | 46 | | | | | | | | | | |
| ZU F 125 | 123 | 131 | 257 | 270 | 263 288 | 268 273 | 278 282 | 286 291 | 278 282 | 272 299 | 272 299 | 272 299 | 272 299 | 272 299 | 72 | 72 | 60 | 77 | 34 | | | | | | | | | | |

CLASS CHARACTERISTICS CLASS SIZE=30 LOCATION=URBAN CLASS NUMBER= 9

| STUDENT CHARACTERISTICS | | | MATH | | SCIENCE | | SOC STUD | | READING | | LISTEN | | WRITING | | FLUENCY | | FLEX | | ORIG | | ELAB | |
|-------------------------|-----|-----|----------|------|---------|------|----------|------|---------|------|--------|------|---------|------|---------|------|------|------|------|------|-------|--------|
| S | E | AGE | PRE | POST | PRE | POST | PRE | POST | PRE | POST | PRE | POST | PRE | POST | PRE | POST | PRE | POST | PRE | POST | PRE | POST |
| NAME X MOS | | | NON-VERB | VERB | | | | | | | | | | | | | | | | | | |
| BE F 124 | 131 | 112 | 264 | 269 | 277 | 287 | 268 | 275 | 279 | 286 | 288 | 296 | 273 | 288 | 288 | 296 | 273 | 288 | 288 | 296 | 32 | 97 109 |
| HF F 128 | 124 | 118 | 258 | 265 | 263 | 271 | 260 | 265 | 269 | 275 | 270 | 289 | 280 | 281 | 258 | 275 | 258 | 280 | 41 | 49 | 51 | 92 101 |
| YL F 124 | 134 | 126 | 253 | 245 | 280 | 283 | 269 | 275 | 273 | 288 | 287 | 289 | 290 | 282 | 290 | 277 | 280 | 54 | 40 | 38 | 29 49 | |
| GR F 126 | 132 | 137 | 265 | 272 | 264 | 279 | 273 | 279 | 273 | 288 | 287 | 289 | 284 | 286 | 275 | 288 | 88 | 68 | 49 | 30 | 67 65 | |
| HK M 129 | 129 | 135 | 270 | 272 | 271 | 276 | 269 | 278 | 272 | 286 | 278 | 284 | 282 | 282 | 282 | 282 | 295 | 33 | 18 | 22 | 15 31 | |
| CH M 129 | 129 | 128 | 264 | 266 | 269 | 271 | 273 | 284 | 266 | 292 | 286 | 290 | 214 | 282 | 214 | 282 | 51 | 77 | 22 | 29 | 32 34 | |
| CO M 126 | 129 | 131 | 264 | 270 | 269 | 287 | 270 | 286 | 270 | 278 | 270 | 286 | 271 | 284 | 271 | 284 | 35 | 33 | 22 | 26 | 26 49 | |
| CP M 124 | 121 | 138 | 264 | 270 | 269 | 270 | 264 | 264 | 263 | 261 | 266 | 274 | 282 | 293 | 269 | 266 | 43 | 67 | 26 | 37 | 32 38 | |
| HP M 128 | 129 | 125 | 269 | 270 | 269 | 270 | 264 | 264 | 264 | 262 | 270 | 278 | 291 | 281 | 274 | 272 | 59 | 55 | 28 | 28 | 62 68 | |
| HE M 123 | 131 | 123 | 258 | 264 | 264 | 276 | 264 | 276 | 262 | 275 | 270 | 278 | 286 | 284 | 286 | 284 | 23 | 23 | 27 | 15 | 22 46 | |
| HO F 129 | 130 | 134 | 264 | 272 | 267 | 287 | 267 | 287 | 269 | 292 | 293 | 303 | 286 | 311 | 286 | 284 | 40 | 23 | 27 | 15 | 22 46 | |
| JJ F 123 | 132 | 120 | 257 | 256 | 263 | 269 | 269 | 271 | 278 | 277 | 278 | 284 | 284 | 276 | 276 | 55 | 51 | 28 | 29 | 38 | 63 85 | |
| JU F 123 | 125 | 110 | 262 | 269 | 261 | 266 | 261 | 268 | 261 | 268 | 266 | 289 | 280 | 282 | 282 | 279 | 68 | 91 | 28 | 32 | 27 57 | |
| JL F 118 | 128 | 117 | 270 | 266 | 273 | 276 | 275 | 284 | 286 | 284 | 286 | 293 | 295 | 291 | 295 | 291 | 55 | 82 | 32 | 41 | 43 46 | |
| JO F 130 | 132 | 122 | 262 | 266 | 269 | 294 | 269 | 294 | 271 | 278 | 282 | 307 | 284 | 288 | 280 | 294 | 38 | 38 | 19 | 21 | 33 35 | |
| NE M 127 | 104 | 264 | 267 | 266 | 266 | 266 | 266 | 266 | 284 | 292 | 287 | 292 | 284 | 296 | 284 | 278 | 35 | 63 | 22 | 30 | 32 41 | |
| PA M 129 | 129 | 124 | 264 | 270 | 266 | 273 | 266 | 273 | 266 | 278 | 270 | 298 | 290 | 298 | 284 | 291 | 69 | 66 | 66 | 66 | 38 53 | |
| SC F 128 | 133 | 123 | 253 | 267 | 275 | 279 | 275 | 279 | 275 | 284 | 286 | 286 | 286 | 293 | 297 | 303 | 55 | 82 | 32 | 41 | 43 46 | |
| SD F 120 | 127 | 135 | 262 | 267 | 273 | 276 | 273 | 273 | 281 | 282 | 283 | 291 | 282 | 277 | 282 | 282 | 60 | 58 | 33 | 39 | 40 45 | |
| SH M 130 | 124 | 135 | 269 | 270 | 269 | 287 | 275 | 273 | 275 | 292 | 275 | 292 | 288 | 293 | 282 | 278 | 46 | 67 | 23 | 31 | 52 51 | |
| SM M 132 | 125 | 129 | 263 | 260 | 264 | 271 | 264 | 271 | 266 | 273 | 270 | 293 | 284 | 291 | 284 | 291 | 66 | 66 | 67 | 67 | 31 34 | |
| SP F 124 | 126 | 127 | 259 | 264 | 277 | 276 | 263 | 269 | 276 | 273 | 278 | 282 | 282 | 293 | 295 | 291 | 60 | 60 | 58 | 58 | 39 40 | |
| ST F 125 | 112 | 117 | 242 | 257 | 252 | 257 | 251 | 251 | 251 | 278 | 251 | 292 | 276 | 279 | 258 | 275 | 26 | 49 | 17 | 34 | 19 40 | |
| SU M 129 | 129 | 135 | 263 | 267 | 267 | 276 | 267 | 276 | 264 | 271 | 269 | 271 | 284 | 286 | 291 | 286 | 51 | 56 | 31 | 30 | 29 37 | |
| SW F 127 | 127 | 129 | 251 | 240 | 269 | 233 | 242 | 242 | 261 | 273 | 290 | 292 | 284 | 293 | 282 | 278 | 46 | 46 | 46 | 46 | 25 34 | |
| TA F 126 | 128 | 129 | 251 | 257 | 266 | 283 | 259 | 257 | 261 | 273 | 273 | 293 | 276 | 303 | 295 | 282 | 28 | 28 | 19 | 36 | 30 36 | |
| TR M 125 | 124 | 128 | 266 | 261 | 275 | 273 | 261 | 275 | 275 | 278 | 275 | 278 | 276 | 279 | 275 | 272 | 26 | 49 | 17 | 34 | 19 40 | |
| VE M 130 | 127 | 142 | 269 | 264 | 275 | 291 | 269 | 269 | 269 | 271 | 271 | 277 | 277 | 280 | 280 | 286 | 26 | 36 | 21 | 27 | 27 44 | |
| VO M 123 | 123 | 125 | 262 | 254 | 273 | 273 | 265 | 269 | 269 | 273 | 273 | 273 | 269 | 284 | 283 | 286 | 63 | 63 | 63 | 63 | 44 64 | |
| WP F 125 | 130 | 267 | 267 | 269 | 269 | 269 | 269 | 269 | 269 | 276 | 277 | 293 | 277 | 293 | 277 | 293 | 73 | 73 | 73 | 73 | 50 58 | |

CLASS CHARACTERISTICS
GRADE 6 CLASS SIZE 23 LOCATION RURAL CLASS NUMBER 10

| STUDENT CHARACTERISTICS | | MATH | | SCIENCE | | SOC STUD | | READING | | LISTEN | | WRITING | | FLUENCY | | FLEX | | ORIG | | ELAB | | | | |
|-------------------------|-------|---------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|------|----|----|-----|----|
| S | IQ | PRE POST | PRE POST | PRE POST | PRE POST | PRE POST | PRE POST | PRE POST | PRE POST | PRE POST | PRE POST | PRE POST | PRE POST | PRE POST | PRE POST | PRE POST | PRE POST | PRE POST | PRE POST | | | | | |
| NAME X | AGE | NON-VENH VERB | | | | | | | | | | | | | | | | | | | | | | |
| AL | 133 | 123 | 129 | 269 | 286 | 276 | 288 | 269 | 269 | 293 | 279 | 288 | 294 | 284 | 305 | 42 | 73 | 22 | 28 | 47 | 44 | 67 | | |
| BY | F 140 | 116 | 116 | 274 | 274 | 269 | 264 | 296 | 275 | 298 | 293 | 284 | 291 | 280 | 291 | 38 | 71 | 28 | 40 | 47 | 28 | 47 | 37 | 65 |
| DA | F 137 | 123 | 128 | 256 | 278 | 287 | 271 | 278 | 271 | 292 | 293 | 289 | 291 | 280 | 291 | 62 | 94 | 36 | 43 | 28 | 43 | 73 | 114 | |
| DU | F 133 | 119 | 125 | 261 | 266 | 266 | 261 | 266 | 275 | 289 | 284 | 279 | 284 | 286 | 299 | 55 | 80 | 35 | 44 | 45 | 74 | 82 | 112 | |
| GA | F 138 | 120 | 129 | 263 | 265 | 273 | 280 | 273 | 263 | 295 | 284 | 284 | 291 | 282 | 286 | 44 | 83 | 31 | 38 | 33 | 55 | 31 | 57 | |
| HE | F 139 | 124 | 108 | 267 | 270 | 276 | 293 | 284 | 288 | 315 | 308 | 293 | 297 | 286 | 299 | 49 | 60 | 33 | 23 | 24 | 21 | 36 | 58 | |
| HY | F 137 | 123 | 112 | 260 | 272 | 269 | 280 | 273 | 288 | 298 | 290 | 290 | 291 | 275 | 291 | 35 | 65 | 20 | 22 | 21 | 22 | 57 | 53 | |
| JY | F 136 | 115 | 123 | 279 | 270 | 273 | 275 | 273 | 273 | 280 | 282 | 270 | 288 | 284 | 288 | 42 | 52 | 25 | 26 | 26 | 26 | 36 | 32 | 54 |
| JA | F 134 | 120 | 121 | 258 | 265 | 267 | 277 | 263 | 262 | 274 | 284 | 269 | 278 | 284 | 286 | 32 | 72 | 32 | 32 | 29 | 35 | 83 | 130 | |
| LA | F 136 | 123 | 136 | 270 | 270 | 310 | 284 | 284 | 280 | 282 | 299 | 286 | 291 | 284 | 294 | 32 | 52 | 33 | 34 | 38 | 41 | 57 | 60 | |
| LE | F 136 | 124 | 124 | 270 | 276 | 266 | 269 | 281 | 281 | 295 | 287 | 288 | 280 | 279 | 282 | 41 | 69 | 27 | 29 | 29 | 59 | 66 | 64 | |
| MA | F 135 | 124 | 110 | 99 | 267 | 267 | 291 | 273 | 275 | 281 | 271 | 277 | 281 | 279 | 276 | 53 | 58 | 29 | 34 | 37 | 35 | 80 | 55 | |
| ME | F 142 | 110 | 119 | 265 | 266 | 271 | 273 | 273 | 269 | 298 | 284 | 290 | 286 | 294 | 286 | 63 | 89 | 30 | 42 | 27 | 61 | 68 | 84 | |
| MI | F 113 | 129 | 124 | 264 | 274 | 287 | 273 | 281 | 271 | 276 | 290 | 282 | 284 | 282 | 278 | 56 | 68 | 35 | 32 | 34 | 48 | 78 | 86 | |
| PA | H 135 | 116 | 107 | 267 | 276 | 283 | 284 | 286 | 288 | 289 | 284 | 290 | 297 | 274 | 305 | 70 | 89 | 32 | 40 | 35 | 35 | 60 | 66 | |
| PO | F 149 | 114 | 123 | 274 | 272 | 291 | 277 | 281 | 266 | 295 | 287 | 290 | 288 | 284 | 291 | 71 | 96 | 33 | 34 | 47 | 68 | 51 | 70 | |
| PP | F 141 | 123 | 113 | 276 | 276 | 291 | 293 | 281 | 281 | 295 | 293 | 290 | 291 | 279 | 277 | 63 | 81 | 36 | 36 | 49 | 41 | 45 | 82 | |
| SH | H 134 | 123 | 121 | 115 | 279 | 278 | 276 | 288 | 284 | 291 | 298 | 290 | 293 | 286 | 284 | 30 | 40 | 23 | 26 | 30 | 22 | 36 | 66 | |
| SI | H 133 | 121 | 102 | 264 | 267 | 296 | 267 | 262 | 261 | 263 | 260 | 262 | 279 | 274 | 280 | 18 | 53 | 10 | 22 | 3 | 18 | 10 | 37 | |
| SU | H 133 | 125 | 118 | 274 | 274 | 291 | 279 | 281 | 292 | 292 | 293 | 296 | 293 | 306 | 301 | 280 | 66 | 30 | 37 | 40 | 52 | 44 | 55 | |
| WA | H 131 | 123 | 120 | 265 | 267 | 296 | 284 | 275 | 275 | 284 | 283 | 277 | 277 | 303 | 282 | 42 | 61 | 32 | 35 | 30 | 41 | 53 | 71 | |
| WH | F 140 | 122 | 120 | 267 | 279 | 302 | 273 | 275 | 275 | 275 | 292 | 296 | 294 | 280 | 291 | 73 | 88 | 31 | 30 | 20 | 27 | 49 | 71 | |
| WI | F 142 | 121 | | | | | | | | | | | | | | | | | | | | | | |

CLASS CHARACTERISTICS CLASS SIZE=23 LOCATION=URBAN CLASS NUMBER=11

| STUDENT CHARACTERISTICS NAME X POS | MATH | | | | SCIENCE | | | | SOC STUD | | | | READING | | | | LISTEN | | | | WRITING | | | |
|---------------------------------------|-------|----------|------|----------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|-----|--|
| | F AGE | NON-VERB | VERB | PRE POST | PRE POST | | | |
| | | | | | PRE | POST | | |
| AN F 110 | 127 | 128 | 129 | 247 | 260 | 273 | 294 | 269 | 290 | 270 | 280 | 278 | 282 | 72 | 99 | 35 | 49 | 48 | 71 | 90 | 136 | ELAB | | |
| AR F 117 | 122 | 119 | 112 | 256 | 265 | 279 | 288 | 256 | 275 | 257 | 284 | 261 | 278 | 50 | 50 | 23 | 23 | 51 | 48 | 31 | 60 | | | |
| BE F 116 | 131 | 130 | 129 | 245 | 262 | 266 | 284 | 255 | 273 | 286 | 299 | 266 | 297 | 59 | 76 | 33 | 38 | 56 | 55 | 69 | 53 | | | |
| BO F 109 | 129 | 120 | 113 | 257 | 266 | 263 | 263 | 271 | 273 | 261 | 262 | 289 | 299 | 54 | 64 | 22 | 33 | 40 | 37 | 28 | 53 | | | |
| CL H 119 | 122 | 123 | 124 | 253 | 264 | 269 | 269 | 267 | 275 | 260 | 268 | 267 | 279 | 261 | 275 | 38 | 43 | 21 | 32 | 25 | 43 | 94 | 63 | |
| DA H 115 | 121 | 114 | 121 | 253 | 264 | 267 | 293 | 262 | 271 | 267 | 282 | 279 | 294 | 272 | 284 | 66 | 76 | 33 | 46 | 51 | 73 | 143 | 142 | |
| EA H 119 | 129 | 130 | 129 | 252 | 265 | 266 | 288 | 265 | 266 | 283 | 282 | 281 | 279 | 280 | 282 | 43 | 48 | 22 | 36 | 34 | 40 | 66 | 63 | |
| FO H 129 | 129 | 122 | 114 | 244 | 259 | 269 | 288 | 252 | 265 | 283 | 282 | 275 | 286 | 276 | 280 | 68 | 68 | 23 | 34 | 31 | 47 | 52 | 66 | |
| GO F 109 | 122 | 125 | 114 | 249 | 258 | 260 | 277 | 255 | 263 | 271 | 282 | 282 | 280 | 267 | 277 | 41 | 41 | 15 | 28 | 25 | 32 | 9 | 37 | |
| HA N 111 | 125 | 120 | 120 | 260 | 264 | 264 | 280 | 254 | 268 | 274 | 279 | 267 | 276 | 266 | 278 | 23 | 23 | 79 | 17 | 33 | 22 | 44 | 37 | |
| JA F 113 | 129 | 129 | 120 | 261 | 264 | 261 | 280 | 254 | 268 | 274 | 279 | 267 | 276 | 252 | 250 | 23 | 18 | 12 | 10 | 21 | 19 | 13 | 13 | |
| JO H 115 | 115 | 119 | 119 | 245 | 264 | 261 | 266 | 249 | 251 | 255 | 259 | 267 | 267 | 252 | 250 | 23 | 19 | 16 | 7 | 18 | 17 | 9 | 17 | |
| HO F 109 | 136 | 132 | 126 | 256 | 260 | 269 | 271 | 269 | 275 | 283 | 296 | 288 | 294 | 272 | 286 | 19 | 22 | 16 | 7 | 18 | 17 | 9 | 17 | |
| PA F 112 | 134 | 124 | 124 | 264 | 269 | 262 | 275 | 260 | 284 | 265 | 296 | 272 | 280 | 215 | 280 | 37 | 32 | 25 | 28 | 32 | 37 | 76 | | |
| PA F 117 | 125 | 136 | 136 | 264 | 265 | 267 | 271 | 256 | 269 | 286 | 279 | 279 | 291 | 219 | 275 | 57 | 57 | 35 | 39 | 42 | 50 | 79 | | |
| RU F 113 | 131 | 132 | 121 | 261 | 267 | 271 | 273 | 259 | 271 | 269 | 293 | 284 | 286 | 272 | 284 | 36 | 36 | 23 | 23 | 37 | 37 | 58 | | |
| SA F 112 | 127 | 127 | 127 | 254 | 274 | 273 | 285 | 254 | 273 | 260 | 286 | 267 | 290 | 301 | 275 | 53 | 53 | 31 | 41 | 45 | 67 | | | |
| SB F 111 | 126 | 126 | 126 | 258 | 272 | 259 | 281 | 260 | 284 | 261 | 282 | 265 | 282 | 270 | 286 | 41 | 41 | 37 | 37 | 32 | 41 | 64 | 126 | |
| SE H 106 | 116 | 116 | 116 | 252 | 265 | 261 | 284 | 263 | 284 | 261 | 284 | 276 | 284 | 281 | 297 | 280 | 286 | 43 | 43 | 41 | 41 | 64 | 126 | |
| SH F 111 | 128 | 111 | 111 | 259 | 266 | 259 | 281 | 261 | 271 | 257 | 268 | 274 | 277 | 273 | 282 | 280 | 273 | 39 | 39 | 31 | 31 | 67 | 64 | |
| SI F 111 | 130 | 116 | 125 | 261 | 270 | 264 | 280 | 262 | 273 | 283 | 270 | 264 | 282 | 275 | 280 | 47 | 47 | 45 | 45 | 47 | 47 | 61 | 131 | |
| ST H 109 | 111 | 126 | 125 | 253 | 259 | 261 | 275 | 259 | 264 | 267 | 275 | 275 | 271 | 263 | 260 | 260 | 263 | 265 | 265 | 265 | 273 | 22 | | |
| TI F 111 | 111 | 125 | 125 | 253 | 259 | 261 | 275 | 259 | 264 | 267 | 275 | 275 | 271 | 267 | 275 | 275 | 275 | 275 | 275 | 275 | 275 | 275 | 22 | |

CLASS CHARACTERISTICS CLASS SIZE=21 LOCATION=URBAN CLASS NUMBER=12

| STUDENT CHARACTERISTICS | | | MATH | | | SCIENCE SOC STUD | | | READING LISTEN | | | WRITING | | | FLUENCY | | | FLEX | | | ORIG | | | ELAB | | |
|-------------------------|-------|----------|----------|-----|-----|------------------|-----|-----|----------------|-----|-----|----------|-----|-----|----------|-----|-----|----------|-----|-----|----------|-----|-----|----------|-----|--|
| | E AGE | NON-VERB | PRE POST | | | PRE POST | | | PRE POST | | | PRE POST | | | PRE POST | | | PRE POST | | | PRE POST | | | PRE POST | | |
| BA F 110 | 127 | 122 | 240 | 263 | 255 | 264 | 269 | 262 | 266 | 280 | 279 | 279 | 290 | 264 | 276 | 264 | 293 | 270 | 30 | 17 | 34 | 48 | 53 | 51 | 51 | |
| CO F 113 | 117 | 130 | 294 | 258 | 269 | 269 | 260 | 278 | 275 | 292 | 282 | 279 | 278 | 294 | 294 | 294 | 42 | 42 | 55 | 70 | 70 | 44 | 54 | 54 | 54 | |
| DO H 119 | 110 | 131 | 246 | 253 | 264 | 269 | 262 | 263 | 265 | 280 | 276 | 288 | 259 | 269 | 69 | 79 | 29 | 42 | 30 | 40 | 48 | 60 | 60 | 60 | 60 | |
| FI H 114 | 106 | 138 | 252 | 267 | 264 | 276 | 257 | 266 | 262 | 293 | 282 | 288 | 286 | 286 | 92 | 100 | 44 | 26 | 28 | 18 | 33 | 66 | 70 | 70 | 70 | |
| FR F 117 | 122 | 130 | 267 | 265 | 261 | 277 | 260 | 278 | 265 | 311 | 242 | 286 | 278 | 284 | 37 | 44 | 26 | 26 | 39 | 32 | 49 | 70 | 69 | 62 | 62 | |
| GA H 117 | 120 | 127 | 260 | 259 | 261 | 279 | 251 | 266 | 259 | 271 | 275 | 296 | 290 | 274 | 50 | 73 | 32 | 32 | 38 | 32 | 47 | 53 | 53 | 57 | 57 | |
| HO H 111 | 121 | 131 | 254 | 266 | 277 | 296 | 259 | 284 | 279 | 292 | 288 | 306 | 265 | 279 | 47 | 59 | 27 | 27 | 38 | 32 | 47 | 53 | 53 | 57 | 57 | |
| HP F 113 | 129 | 127 | 252 | 266 | 261 | 273 | 262 | 275 | 264 | 295 | 301 | 306 | 284 | 266 | 32 | 49 | 21 | 37 | 35 | 39 | 41 | 41 | 41 | 41 | 41 | |
| JU H 119 | 127 | 116 | 249 | 252 | 257 | 264 | 256 | 262 | 270 | 278 | 267 | 278 | 264 | 274 | 50 | 58 | 28 | 36 | 48 | 48 | 55 | 75 | 75 | 75 | 75 | |
| NE F 119 | 123 | 130 | 263 | 259 | 277 | 283 | 258 | 268 | 275 | 292 | 286 | 284 | 275 | 291 | 60 | 60 | 58 | 40 | 34 | 38 | 40 | 40 | 40 | 40 | 40 | |
| OS F 111 | 121 | 126 | 256 | 267 | 277 | 296 | 260 | 273 | 277 | 311 | 282 | 286 | 278 | 286 | 60 | 70 | 70 | 33 | 40 | 41 | 41 | 54 | 157 | 157 | 157 | |
| PA H 115 | 126 | 118 | 253 | 261 | 279 | 287 | 263 | 265 | 290 | 280 | 282 | 275 | 274 | 291 | 25 | 38 | 16 | 32 | 15 | 27 | 15 | 27 | 66 | 75 | 75 | |
| PE F 114 | 130 | 118 | 254 | 264 | 271 | 262 | 266 | 265 | 267 | 292 | 294 | 284 | 274 | 282 | 58 | 65 | 27 | 36 | 33 | 33 | 49 | 79 | 75 | 75 | 75 | |
| SL F 112 | 115 | 103 | 259 | 260 | 266 | 271 | 252 | 258 | 266 | 283 | 291 | 288 | 259 | 273 | 31 | 31 | 29 | 31 | 29 | 31 | 31 | 29 | 35 | 35 | 35 | |
| SN H 121 | 117 | 123 | 251 | 263 | 264 | 271 | 259 | 278 | 270 | 278 | 280 | 279 | 262 | 273 | 47 | 47 | 25 | 27 | 32 | 32 | 44 | 59 | 59 | 59 | 59 | |
| SP H 113 | 130 | 151 | 265 | 270 | 264 | 296 | 260 | 275 | 260 | 292 | 275 | 284 | 264 | 280 | 26 | 26 | 26 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | |
| SY H 120 | 117 | 112 | 265 | 270 | 265 | 270 | 260 | 279 | 266 | 292 | 275 | 284 | 284 | 283 | 279 | 295 | 279 | 274 | 274 | 274 | 274 | 274 | 274 | 274 | 274 | |
| W F 113 | 113 | 131 | 245 | 261 | 265 | 270 | 265 | 279 | 262 | 295 | 275 | 284 | 279 | 295 | 279 | 295 | 279 | 274 | 274 | 274 | 274 | 274 | 274 | 274 | 274 | |

CLASS CHARACTERISTICS CLASS SIZE=28 LOCATION:URBAN CLASS NUMBER=13

| STUDENT CHARACTERISTICS | | IN | | MATH | | SCIENCE | | SOC STUD | | READING | | LISTEN | | WRITING | | FLEX | | ORIG | | EAS | | |
|-------------------------|-----|-----|-----|----------|------|---------|------|----------|------|---------|------|--------|------|---------|------|------|------|------|------|-----|------|-----|
| NAME | MUS | F | AGE | NON-VERB | VERB | PRE | POST | PHE | POST | PRE | POST | PRE | POST | PRE | POST | PRE | POST | PRE | POST | PRE | POST | |
| NH | H | 128 | 124 | 123 | 123 | 269 | 276 | 264 | 273 | 273 | 279 | 286 | 287 | 284 | 286 | 280 | 291 | 177 | 80 | 69 | 69 | |
| HK | F | 125 | 131 | 127 | 127 | 263 | 269 | 260 | 266 | 273 | 271 | 295 | 279 | 275 | 286 | 278 | 291 | 66 | 62 | 62 | 62 | |
| CA | F | 121 | 120 | 117 | 126 | 266 | 266 | 283 | 271 | 278 | 273 | 103 | 293 | 290 | 288 | 275 | 305 | 46 | 46 | 47 | 44 | |
| CR | F | 123 | 134 | 114 | 265 | 276 | 273 | 277 | 261 | 261 | 195 | 290 | 278 | 294 | 280 | 293 | 32 | 111 | 76 | 34 | 34 | |
| DE | F | 125 | 128 | 125 | 269 | 266 | 287 | 284 | 275 | 281 | 280 | 290 | 281 | 286 | 280 | 288 | 22 | 47 | 53 | 23 | 23 | |
| DU | H | 130 | 132 | 133 | 267 | 270 | 296 | 280 | 281 | 284 | 286 | 303 | 294 | 284 | 288 | 70 | 40 | 129 | 140 | 29 | 29 | |
| GR | H | 129 | 107 | 119 | 265 | 270 | 283 | 288 | 266 | 278 | 292 | 284 | 281 | 294 | 262 | 284 | 37 | 221 | 173 | 49 | 49 | |
| HA | F | 128 | 133 | 122 | 263 | 272 | 271 | 280 | 263 | 273 | 303 | 290 | 288 | 294 | 288 | 310 | 32 | 22 | 137 | 137 | 37 | 37 |
| HI | F | 131 | 129 | 134 | 260 | 267 | 287 | 293 | 279 | 273 | 307 | 296 | 274 | 291 | 284 | 288 | 31 | 95 | 65 | 65 | 65 | 65 |
| JU | F | 124 | 133 | 129 | 257 | 259 | 269 | 277 | 263 | 261 | 278 | 282 | 286 | 286 | 280 | 295 | 31 | 95 | 65 | 65 | 65 | 65 |
| JA | F | 121 | 131 | 113 | 292 | 258 | 273 | 271 | 269 | 271 | 280 | 282 | 274 | 291 | 280 | 284 | 32 | 91 | 61 | 61 | 61 | 61 |
| MC | F | 123 | 132 | 138 | 266 | 267 | 273 | 286 | 266 | 278 | 303 | 227 | 296 | 286 | 274 | 288 | 31 | 94 | 67 | 67 | 67 | 67 |
| MI | H | 128 | 124 | 129 | 256 | 269 | 271 | 275 | 271 | 266 | 295 | 284 | 286 | 290 | 270 | 294 | 31 | 95 | 65 | 65 | 65 | 65 |
| MO | F | 130 | 121 | 131 | 270 | 272 | 273 | 214 | 271 | 278 | 289 | 282 | 274 | 291 | 279 | 278 | 32 | 91 | 61 | 61 | 61 | 61 |
| PI | F | 127 | 132 | 136 | 276 | 274 | 287 | 275 | 292 | 281 | 286 | 293 | 296 | 286 | 282 | 284 | 32 | 91 | 61 | 61 | 61 | 61 |
| PF | F | 121 | 131 | 114 | 259 | 262 | 287 | 263 | 269 | 266 | 295 | 284 | 286 | 290 | 272 | 292 | 31 | 95 | 65 | 65 | 65 | 65 |
| RA | F | 130 | 135 | 135 | 261 | 267 | 270 | 270 | 276 | 275 | 275 | 271 | 275 | 274 | 278 | 278 | 292 | 30 | 91 | 61 | 61 | 61 |
| SA | F | 125 | 130 | 130 | 256 | 263 | 273 | 280 | 263 | 260 | 266 | 271 | 266 | 274 | 274 | 278 | 292 | 30 | 91 | 61 | 61 | 61 |
| SH | F | 118 | 134 | 139 | 265 | 274 | 273 | 273 | 273 | 273 | 303 | 293 | 293 | 291 | 294 | 294 | 30 | 91 | 61 | 61 | 61 | 61 |
| TA | F | 129 | 133 | 128 | 254 | 267 | 267 | 275 | 271 | 274 | 307 | 296 | 296 | 290 | 276 | 290 | 29 | 91 | 61 | 61 | 61 | 61 |
| TH | F | 125 | 125 | 126 | 256 | 264 | 264 | 264 | 263 | 264 | 269 | 269 | 269 | 269 | 275 | 275 | 275 | 275 | 275 | 275 | 275 | 275 |

CLASS CHARACTERISTICS **GRADE: 6** **CLASS SIZE: 30** **LOCATION: RURAL** **CLASS NUMBER: 14**

CLASS CHARACTERISTICS CLASS SIZE 24 LOCATION: IRVINGTON CLASS NUMBER: 15

| STUDENT NAME X POS | AGE | NON-VERB | VERB | HAIH | | SCIENCE | | SOC STUD | | READING | | LISTEN | | WRITING | |
|-----------------------|-----|----------|------|------|------|---------|------|----------|------|---------|------|--------|------|---------|------|
| | | | | PRE | POST | PRE | POST | PRE | POST | PRE | POST | PRE | POST | PRE | POST |
| H 111 | 126 | 253 | 264 | 264 | 262 | 263 | 249 | 258 | 268 | 267 | 284 | 273 | 274 | 284 | 274 |
| H 112 | 124 | 256 | 264 | 262 | 260 | 262 | 262 | 263 | 268 | 267 | 271 | 276 | 277 | 276 | 277 |
| H 113 | 123 | 254 | 259 | 259 | 276 | 259 | 266 | 253 | 261 | 270 | 284 | 266 | 264 | 270 | 284 |
| H 114 | 121 | 258 | 276 | 259 | 265 | 267 | 261 | 263 | 268 | 274 | 275 | 275 | 274 | 275 | 275 |
| H 115 | 122 | 101 | 122 | 261 | 278 | 276 | 262 | 266 | 278 | 274 | 287 | 275 | 279 | 287 | 287 |
| H 116 | 121 | 101 | 123 | 259 | 267 | 263 | 264 | 252 | 251 | 254 | 266 | 264 | 264 | 277 | 277 |
| H 117 | 120 | 120 | 120 | 259 | 267 | 260 | 267 | 267 | 268 | 265 | 284 | 278 | 278 | 284 | 284 |
| H 118 | 121 | 121 | 121 | 259 | 265 | 267 | 261 | 263 | 268 | 270 | 278 | 274 | 274 | 280 | 280 |
| H 119 | 122 | 101 | 122 | 261 | 278 | 276 | 262 | 266 | 278 | 274 | 287 | 275 | 275 | 287 | 287 |
| H 120 | 121 | 101 | 123 | 259 | 267 | 263 | 264 | 252 | 251 | 254 | 277 | 274 | 274 | 287 | 287 |
| H 121 | 120 | 120 | 120 | 259 | 267 | 260 | 267 | 268 | 269 | 265 | 284 | 278 | 278 | 284 | 284 |
| H 122 | 121 | 121 | 121 | 259 | 265 | 267 | 261 | 263 | 268 | 265 | 284 | 278 | 278 | 284 | 284 |
| H 123 | 120 | 120 | 120 | 259 | 267 | 260 | 267 | 268 | 269 | 265 | 284 | 278 | 278 | 284 | 284 |
| H 124 | 121 | 121 | 121 | 259 | 265 | 267 | 261 | 263 | 268 | 265 | 284 | 278 | 278 | 284 | 284 |
| H 125 | 120 | 120 | 120 | 259 | 267 | 260 | 267 | 268 | 269 | 265 | 284 | 278 | 278 | 284 | 284 |
| H 126 | 121 | 121 | 121 | 259 | 265 | 267 | 261 | 263 | 268 | 265 | 284 | 278 | 278 | 284 | 284 |
| H 127 | 120 | 120 | 120 | 259 | 267 | 260 | 267 | 268 | 269 | 265 | 284 | 278 | 278 | 284 | 284 |
| H 128 | 121 | 121 | 121 | 259 | 265 | 267 | 261 | 263 | 268 | 265 | 284 | 278 | 278 | 284 | 284 |
| H 129 | 120 | 120 | 120 | 259 | 267 | 260 | 267 | 268 | 269 | 265 | 284 | 278 | 278 | 284 | 284 |
| H 130 | 121 | 121 | 121 | 259 | 265 | 267 | 261 | 263 | 268 | 265 | 284 | 278 | 278 | 284 | 284 |
| H 131 | 120 | 120 | 120 | 259 | 267 | 260 | 267 | 268 | 269 | 265 | 284 | 278 | 278 | 284 | 284 |
| H 132 | 121 | 121 | 121 | 259 | 265 | 267 | 261 | 263 | 268 | 265 | 284 | 278 | 278 | 284 | 284 |
| H 133 | 120 | 120 | 120 | 259 | 267 | 260 | 267 | 268 | 269 | 265 | 284 | 278 | 278 | 284 | 284 |
| H 134 | 121 | 121 | 121 | 259 | 265 | 267 | 261 | 263 | 268 | 265 | 284 | 278 | 278 | 284 | 284 |
| H 135 | 120 | 120 | 120 | 259 | 267 | 260 | 267 | 268 | 269 | 265 | 284 | 278 | 278 | 284 | 284 |
| H 136 | 121 | 121 | 121 | 259 | 265 | 267 | 261 | 263 | 268 | 265 | 284 | 278 | 278 | 284 | 284 |
| H 137 | 120 | 120 | 120 | 259 | 267 | 260 | 267 | 268 | 269 | 265 | 284 | 278 | 278 | 284 | 284 |
| H 138 | 121 | 121 | 121 | 259 | 265 | 267 | 261 | 263 | 268 | 265 | 284 | 278 | 278 | 284 | 284 |
| H 139 | 120 | 120 | 120 | 259 | 267 | 260 | 267 | 268 | 269 | 265 | 284 | 278 | 278 | 284 | 284 |
| H 140 | 121 | 121 | 121 | 259 | 265 | 267 | 261 | 263 | 268 | 265 | 284 | 278 | 278 | 284 | 284 |
| H 141 | 120 | 120 | 120 | 259 | 267 | 260 | 267 | 268 | 269 | 265 | 284 | 278 | 278 | 284 | 284 |
| H 142 | 121 | 121 | 121 | 259 | 265 | 267 | 261 | 263 | 268 | 265 | 284 | 278 | 278 | 284 | 284 |
| H 143 | 120 | 120 | 120 | 259 | 267 | 260 | 267 | 268 | 269 | 265 | 284 | 278 | 278 | 284 | 284 |
| H 144 | 121 | 121 | 121 | 259 | 265 | 267 | 261 | 263 | 268 | 265 | 284 | 278 | 278 | 284 | 284 |
| H 145 | 120 | 120 | 120 | 259 | 267 | 260 | 267 | 268 | 269 | 265 | 284 | 278 | 278 | 284 | 284 |
| H 146 | 121 | 121 | 121 | 259 | 265 | 267 | 261 | 263 | 268 | 265 | 284 | 278 | 278 | 284 | 284 |
| H 147 | 120 | 120 | 120 | 259 | 267 | 260 | 267 | 268 | 269 | 265 | 284 | 278 | 278 | 284 | 284 |
| H 148 | 121 | 121 | 121 | 259 | 265 | 267 | 261 | 263 | 268 | 265 | 284 | 278 | 278 | 284 | 284 |
| H 149 | 120 | 120 | 120 | 259 | 267 | 260 | 267 | 268 | 269 | 265 | 284 | 278 | 278 | 284 | 284 |
| H 150 | 121 | 121 | 121 | 259 | 265 | 267 | 261 | 263 | 268 | 265 | 284 | 278 | 278 | 284 | 284 |
| H 151 | 120 | 120 | 120 | 259 | 267 | 260 | 267 | 268 | 269 | 265 | 284 | 278 | 278 | 284 | 284 |
| H 152 | 121 | 121 | 121 | 259 | 265 | 267 | 261 | 263 | 268 | 265 | 284 | 278 | 278 | 284 | 284 |
| H 153 | 120 | 120 | 120 | 259 | 267 | 260 | 267 | 268 | 269 | 265 | 284 | 278 | 278 | 284 | 284 |
| H 154 | 121 | 121 | 121 | 259 | 265 | 267 | 261 | 263 | 268 | 265 | 284 | 278 | 278 | 284 | 284 |
| H 155 | 120 | 120 | 120 | 259 | 267 | 260 | 267 | 268 | 269 | 265 | 284 | 278 | 278 | 284 | 284 |
| H 156 | 121 | 121 | 121 | 259 | 265 | 267 | 261 | 263 | 268 | 265 | 284 | 278 | 278 | 284 | 284 |
| H 157 | 120 | 120 | 120 | 259 | 267 | 260 | 267 | 268 | 269 | 265 | 284 | 278 | 278 | 284 | 284 |
| H 158 | 121 | 121 | 121 | 259 | 265 | 267 | 261 | 263 | 268 | 265 | 284 | 278 | 278 | 284 | 284 |
| H 159 | 120 | 120 | 120 | 259 | 267 | 260 | 267 | 268 | 269 | 265 | 284 | 278 | 278 | 284 | 284 |
| H 160 | 121 | 121 | 121 | 259 | 265 | 267 | 261 | 263 | 268 | 265 | 284 | 278 | 278 | 284 | 284 |
| H 161 | 120 | 120 | 120 | 259 | 267 | 260 | 267 | 268 | 269 | 265 | 284 | 278 | 278 | 284 | 284 |
| H 162 | 121 | 121 | 121 | 259 | 265 | 267 | 261 | 263 | 268 | 265 | 284 | 278 | 278 | 284 | 284 |
| H 163 | 120 | 120 | 120 | 259 | 267 | 260 | 267 | 268 | 269 | 265 | 284 | 278 | 278 | 284 | 284 |
| H 164 | 121 | 121 | 121 | 259 | 265 | 267 | 261 | 263 | 268 | 265 | 284 | 278 | 278 | 284 | 284 |
| H 165 | 120 | 120 | 120 | 259 | 267 | 260 | 267 | 268 | 269 | 265 | 284 | 278 | 278 | 284 | 284 |
| H 166 | 121 | 121 | 121 | 259 | 265 | 267 | 261 | 263 | 268 | 265 | 284 | 278 | 278 | 284 | 284 |
| H 167</ | | | | | | | | | | | | | | | |

CLASS CHARACTERISTICS
GRADE 6 CLASS SIZE=16 LOCATION=RURAL CLASS NUMBER=16

| STUDENT CHARACTERISTICS | IQ | | MATH | | SCIENCE SOC STUD | | READING | | LISTEN | | WRITING | | FLUENCY | | FLEX | | ORIG | | ELAB | |
|-------------------------|----|-------|----------|----------|------------------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|
| | S | E AGE | PRE POST | | PRE POST | | PRE POST | | PRE POST | | PRE POST | | PRE POST | | PRE POST | | PRE POST | | PRE POST | |
| | | | NAME | NON-VERB | PRL | POST | PRL | POST | PRL | POST | PRL | POST | PRL | POST | PRL | POST | PRL | POST | PRL | POST |
| HU | F | 137 | 121 | 124 | 274 | 270 | 277 | 310 | 281 | 281 | 290 | 292 | 284 | 311 | 299 | 291 | 30 | 32 | 31 | 79 |
| UP | F | 142 | 125 | 267 | 272 | 280 | 287 | 273 | 292 | 296 | 311 | 301 | 306 | 301 | 296 | 294 | 27 | 24 | 33 | 101 |
| UR | F | 141 | 121 | 114 | 270 | 272 | 267 | 281 | 265 | 278 | 296 | 298 | 282 | 296 | 286 | 298 | 24 | 26 | 28 | 89 |
| HS | F | 138 | 122 | 132 | 272 | 279 | 273 | 287 | 273 | 281 | 284 | 295 | 291 | 296 | 277 | 284 | 15 | 20 | 40 | 99 |
| CA | F | 139 | 127 | 126 | 272 | 276 | 267 | 302 | 275 | 271 | 290 | 289 | 297 | 293 | 291 | 291 | 17 | 21 | 15 | 54 |
| CL | F | 140 | 116 | 113 | 278 | 282 | 284 | 287 | 273 | 281 | 282 | 307 | 284 | 292 | 295 | 303 | 35 | 36 | 36 | 29 |
| DA | F | 143 | 105 | 123 | 260 | 254 | 266 | 273 | 271 | 266 | 270 | 278 | 286 | 290 | 282 | 288 | 18 | 27 | 22 | 47 |
| DE | H | 137 | 121 | 117 | 269 | 276 | 284 | 266 | 272 | 278 | 279 | 271 | 276 | 290 | 266 | 275 | 25 | 27 | 33 | 50 |
| DJ | H | 154 | 123 | 118 | 276 | 279 | 297 | 310 | 288 | 296 | 293 | 295 | 297 | 311 | 286 | 288 | 14 | 14 | 28 | 69 |
| EL | F | 133 | 104 | 131 | 264 | 260 | 266 | 273 | 261 | 265 | 268 | 283 | 279 | 279 | 273 | 284 | 27 | 27 | 22 | 82 |
| HD | F | 134 | 128 | 129 | 267 | 274 | 280 | 296 | 284 | 278 | 282 | 298 | 286 | 303 | 291 | 282 | 34 | 35 | 34 | 152 |
| SH | H | 130 | 111 | 111 | 267 | 270 | 275 | 276 | 276 | 281 | 279 | 286 | 294 | 293 | 291 | 291 | 6 | 6 | 28 | 95 |
| TI | H | 135 | 127 | 134 | 267 | 274 | 277 | 324 | 284 | 286 | 293 | 299 | 286 | 306 | 284 | 286 | 35 | 38 | 31 | 73 |
| VA | H | 113 | 113 | 269 | 272 | 275 | 287 | 275 | 287 | 287 | 292 | 292 | 297 | 292 | 295 | 295 | 21 | 26 | 28 | 91 |

CLASS CHARACTERISTICS

CLASS CHARACTERISTICS
GRADE 6 CLASS SIZE = 22 LOCATION = URRAN CLASS NUMBER = 10

| STUDENT CHARACTERISTICS | | TESTS | | | | | | | | | |
|-------------------------|------|-------|-----|------------|--------|------|---------|----------|---------|--------|---------|
| S | NAME | AGE | SEX | NON-VERBAL | VERBAL | MATH | SCIENCE | SOC STUD | READING | LISTEN | WRITING |
| ST | X | Y | Z | W | V | U | T | R | P | Q | S |
| 1 | AL | 126 | F | 137 | 119 | 269 | 271 | 273 | 292 | 293 | 291 |
| 2 | CU | 124 | F | 133 | 125 | 276 | 271 | 273 | 292 | 293 | 291 |
| 3 | DP | 119 | F | 136 | 124 | 267 | 271 | 273 | 292 | 293 | 291 |
| 4 | FP | 120 | M | 129 | 124 | 270 | 274 | 276 | 293 | 294 | 292 |
| 5 | G1 | 142 | M | 134 | 128 | 274 | 276 | 278 | 294 | 295 | 293 |
| 6 | H1 | 120 | M | 120 | 117 | 272 | 274 | 276 | 293 | 294 | 292 |
| 7 | H2 | 119 | M | 134 | 124 | 274 | 276 | 278 | 293 | 294 | 292 |
| 8 | H3 | 123 | M | 136 | 124 | 274 | 276 | 278 | 293 | 294 | 292 |
| 9 | H4 | 116 | M | 134 | 123 | 274 | 276 | 278 | 293 | 294 | 292 |
| 10 | H5 | 122 | M | 135 | 125 | 274 | 276 | 278 | 293 | 294 | 292 |
| 11 | H6 | 119 | M | 135 | 125 | 274 | 276 | 278 | 293 | 294 | 292 |
| 12 | H7 | 121 | M | 135 | 125 | 274 | 276 | 278 | 293 | 294 | 292 |
| 13 | H8 | 120 | M | 135 | 125 | 274 | 276 | 278 | 293 | 294 | 292 |
| 14 | K1 | 127 | M | 141 | 125 | 274 | 276 | 278 | 293 | 294 | 292 |
| 15 | K2 | 119 | M | 142 | 125 | 274 | 276 | 278 | 293 | 294 | 292 |
| 16 | K3 | 120 | M | 142 | 125 | 274 | 276 | 278 | 293 | 294 | 292 |
| 17 | K4 | 121 | M | 142 | 125 | 274 | 276 | 278 | 293 | 294 | 292 |
| 18 | K5 | 120 | M | 142 | 125 | 274 | 276 | 278 | 293 | 294 | 292 |
| 19 | K6 | 121 | M | 142 | 125 | 274 | 276 | 278 | 293 | 294 | 292 |
| 20 | K7 | 120 | M | 142 | 125 | 274 | 276 | 278 | 293 | 294 | 292 |
| 21 | K8 | 121 | M | 142 | 125 | 274 | 276 | 278 | 293 | 294 | 292 |
| 22 | L1 | 128 | M | 144 | 126 | 274 | 276 | 278 | 293 | 294 | 292 |
| 23 | L2 | 129 | M | 144 | 126 | 274 | 276 | 278 | 293 | 294 | 292 |
| 24 | L3 | 127 | M | 144 | 126 | 274 | 276 | 278 | 293 | 294 | 292 |
| 25 | L4 | 128 | M | 144 | 126 | 274 | 276 | 278 | 293 | 294 | 292 |
| 26 | L5 | 129 | M | 144 | 126 | 274 | 276 | 278 | 293 | 294 | 292 |
| 27 | L6 | 127 | M | 144 | 126 | 274 | 276 | 278 | 293 | 294 | 292 |
| 28 | L7 | 128 | M | 144 | 126 | 274 | 276 | 278 | 293 | 294 | 292 |
| 29 | L8 | 129 | M | 144 | 126 | 274 | 276 | 278 | 293 | 294 | 292 |
| 30 | M1 | 126 | M | 145 | 127 | 274 | 276 | 278 | 293 | 294 | 292 |
| 31 | M2 | 127 | M | 145 | 127 | 274 | 276 | 278 | 293 | 294 | 292 |
| 32 | M3 | 128 | M | 145 | 127 | 274 | 276 | 278 | 293 | 294 | 292 |
| 33 | M4 | 129 | M | 145 | 127 | 274 | 276 | 278 | 293 | 294 | 292 |
| 34 | M5 | 127 | M | 145 | 127 | 274 | 276 | 278 | 293 | 294 | 292 |
| 35 | M6 | 128 | M | 145 | 127 | 274 | 276 | 278 | 293 | 294 | 292 |
| 36 | M7 | 129 | M | 145 | 127 | 274 | 276 | 278 | 293 | 294 | 292 |
| 37 | M8 | 127 | M | 145 | 127 | 274 | 276 | 278 | 293 | 294 | 292 |
| 38 | N1 | 126 | M | 146 | 128 | 274 | 276 | 278 | 293 | 294 | 292 |
| 39 | N2 | 127 | M | 146 | 128 | 274 | 276 | 278 | 293 | 294 | 292 |
| 40 | N3 | 128 | M | 146 | 128 | 274 | 276 | 278 | 293 | 294 | 292 |
| 41 | N4 | 129 | M | 146 | 128 | 274 | 276 | 278 | 293 | 294 | 292 |
| 42 | N5 | 127 | M | 146 | 128 | 274 | 276 | 278 | 293 | 294 | 292 |
| 43 | N6 | 128 | M | 146 | 128 | 274 | 276 | 278 | 293 | 294 | 292 |
| 44 | N7 | 129 | M | 146 | 128 | 274 | 276 | 278 | 293 | 294 | 292 |
| 45 | N8 | 127 | M | 146 | 128 | 274 | 276 | 278 | 293 | 294 | 292 |
| 46 | O1 | 126 | M | 147 | 129 | 274 | 276 | 278 | 293 | 294 | 292 |
| 47 | O2 | 127 | M | 147 | 129 | 274 | 276 | 278 | 293 | 294 | 292 |
| 48 | O3 | 128 | M | 147 | 129 | 274 | 276 | 278 | 293 | 294 | 292 |
| 49 | O4 | 129 | M | 147 | 129 | 274 | 276 | 278 | 293 | 294 | 292 |
| 50 | O5 | 127 | M | 147 | 129 | 274 | 276 | 278 | 293 | 294 | 292 |
| 51 | O6 | 128 | M | 147 | 129 | 274 | 276 | 278 | 293 | 294 | 292 |
| 52 | O7 | 129 | M | 147 | 129 | 274 | 276 | 278 | 293 | 294 | 292 |
| 53 | O8 | 127 | M | 147 | 129 | 274 | 276 | 278 | 293 | 294 | 292 |
| 54 | P1 | 126 | M | 148 | 130 | 274 | 276 | 278 | 293 | 294 | 292 |
| 55 | P2 | 127 | M | 148 | 130 | 274 | 276 | 278 | 293 | 294 | 292 |
| 56 | P3 | 128 | M | 148 | 130 | 274 | 276 | 278 | 293 | 294 | 292 |
| 57 | P4 | 129 | M | 148 | 130 | 274 | 276 | 278 | 293 | 294 | 292 |
| 58 | P5 | 127 | M | 148 | 130 | 274 | 276 | 278 | 293 | 294 | 292 |
| 59 | P6 | 128 | M | 148 | 130 | 274 | 276 | 278 | 293 | 294 | 292 |
| 60 | P7 | 129 | M | 148 | 130 | 274 | 276 | 278 | 293 | 294 | 292 |
| 61 | P8 | 127 | M | 148 | 130 | 274 | 276 | 278 | 293 | 294 | 292 |
| 62 | Q1 | 126 | M | 149 | 132 | 274 | 276 | 278 | 293 | 294 | 292 |
| 63 | Q2 | 127 | M | 149 | 132 | 274 | 276 | 278 | 293 | 294 | 292 |
| 64 | Q3 | 128 | M | 149 | 132 | 274 | 276 | 278 | 293 | 294 | 292 |
| 65 | Q4 | 129 | M | 149 | 132 | 274 | 276 | 278 | 293 | 294 | 292 |
| 66 | Q5 | 127 | M | 149 | 132 | 274 | 276 | 278 | 293 | 294 | 292 |
| 67 | Q6 | 128 | M | 149 | 132 | 274 | 276 | 278 | 293 | 294 | 292 |
| 68 | Q7 | 129 | M | 149 | 132 | 274 | 276 | 278 | 293 | 294 | 292 |
| 69 | Q8 | 127 | M | 149 | 132 | 274 | 276 | 278 | 293 | 294 | 292 |
| 70 | R1 | 126 | M | 150 | 134 | 274 | 276 | 278 | 293 | 294 | 292 |
| 71 | R2 | 127 | M | 150 | 134 | 274 | 276 | 278 | 293 | 294 | 292 |
| 72 | R3 | 128 | M | 150 | 134 | 274 | 276 | 278 | 293 | 294 | 292 |
| 73 | R4 | 129 | M | 150 | 134 | 274 | 276 | 278 | 293 | 294 | 292 |
| 74 | R5 | 127 | M | 150 | 134 | 274 | 276 | 278 | 293 | 294 | 292 |
| 75 | R6 | 128 | M | 150 | 134 | 274 | 276 | 278 | 293 | 294 | 292 |
| 76 | R7 | 129 | M | 150 | 134 | 274 | 276 | 278 | 293 | 294 | 292 |
| 77 | R8 | 127 | M | 150 | 134 | 274 | 276 | 278 | 293 | 294 | 292 |
| 78 | S1 | 126 | M | 151 | 136 | 274 | 276 | 278 | 293 | 294 | 292 |
| 79 | S2 | 127 | M | 151 | 136 | 274 | 276 | 278 | 293 | 294 | 292 |
| 80 | S3 | 128 | M | 151 | 136 | 274 | 276 | 278 | 293 | 294 | 292 |
| 81 | S4 | 129 | M | 151 | 136 | 274 | 276 | 278 | 293 | 294 | 292 |
| 82 | S5 | 127 | M | 151 | 136 | 274 | 276 | 278 | 293 | 294 | 292 |
| 83 | S6 | 128 | M | 151 | 136 | 274 | 276 | 278 | 293 | 294 | 292 |
| 84 | S7 | 129 | M | 151 | 136 | 274 | 276 | 278 | 293 | 294 | 292 |
| 85 | S8 | 127 | M | 151 | 136 | 274 | 276 | 278 | 293 | 294 | 292 |
| 86 | T1 | 126 | M | 152 | 138 | 274 | 276 | 278 | 293 | 294 | 292 |
| 87 | T2 | 127 | M | 152 | 138 | 274 | 276 | 278 | 293 | 294 | 292 |
| 88 | T3 | 128 | M | 152 | 138 | 274 | 276 | 278 | 293 | 294 | 292 |
| 89 | T4 | 129 | M | 152 | 138 | 274 | 276 | 278 | 293 | 294 | 292 |
| 90 | T5 | 127 | M | 152 | 138 | 274 | 276 | 278 | 293 | 294 | 292 |
| 91 | T6 | 128 | M | 152 | 138 | 274 | 276 | 278 | 293 | 294 | 292 |
| 92 | T7 | 129 | M | 152 | 138 | 274 | 276 | 278 | 293 | 294 | 292 |
| 93 | T8 | 127 | M | 152 | 138 | 274 | 276 | 278 | 293 | 294 | 292 |
| 94 | U1 | 126 | M | 153 | 140 | 274 | 276 | 278 | 293 | 294 | 292 |
| 95 | U2 | 127 | M | 153 | 140 | 274 | 276 | 278 | 293 | 294 | 292 |
| 96 | U3 | 128 | M | 153 | 140 | 274 | 276 | 278 | 293 | 294 | 292 |
| 97 | U4 | 129 | M | 153 | 140 | 274 | 276 | 278 | 293 | 294 | 292 |
| 98 | U5 | 127 | M | 153 | 140 | 274 | 276 | 278 | 293 | 294 | 292 |
| 99 | U6 | 128 | M | 153 | 140 | 274 | 276 | 278 | 293 | 294 | 292 |
| 100 | U7 | 129 | M | 153 | 140 | 274 | 276 | 278 | 293 | 294 | 292 |
| 101 | U8 | 127 | M | 153 | 140 | 274 | 276 | 278 | 293 | 294 | 292 |
| 102 | V1 | 126 | M | 154 | 142 | 274 | 276 | 278 | 293 | 294 | 292 |
| 103 | V2 | 127 | M | 154 | 142 | 274 | 276 | 278 | 293 | 294 | 292 |
| 104 | V3 | 128 | M | 154 | 142 | 274 | 276 | 278 | 293 | 294 | 292 |
| 105 | V4 | 129 | M | 154 | 142 | 274 | 276 | 278 | 293 | 294 | 292 |
| 106 | V5 | 127 | M | 154 | 142 | 274 | 276 | 278 | 293 | 294 | 292 |
| 107 | V6 | 128 | M | 154 | 142 | 274 | 276 | 278 | 293 | 294 | 292 |
| 108 | V7 | 129 | M | 154 | 142 | 274 | 276 | 278 | 293 | 294 | 292 |
| 109 | V8 | 127 | M | 154 | 142 | 274 | 276 | 278 | 293 | 294 | 292 |
| 110 | W1 | 126 | M | 155 | 144 | 274 | 276 | 278 | 293 | 294 | 292 |
| 111 | W2 | 127 | M | 155 | 144 | 274 | 276 | 278 | 293 | 294 | 292 |
| 112 | W3 | 128 | M | 155 | 144 | 274 | 276 | 278 | 293 | 294 | 292 |
| 113 | W4 | 129 | M | 155 | 144 | 274 | 276 | 278 | 293 | 294 | 292 |
| 114 | W5 | 127 | M | 155 | 144 | 274 | 276 | 278 | 293 | 294 | 292 |
| 115 | W6 | 128 | M | 155 | 144 | 274 | 276 | 278 | 293 | 294 | 292 |
| 116 | W7 | 129 | M | 155 | 144 | 274 | 276 | 278 | 293 | 294 | 292 |
| 117 | W8 | 127 | M | 155 | 144 | 274 | 276 | 278 | 293 | 294 | 292 |
| 118 | X1 | 126 | M | 156 | 146 | 274 | 276 | 278 | 293 | 294 | 292 |
| 119 | X2 | 127 | M | 156 | 146 | 274 | 276 | 278 | 293 | 294 | 292 |
| 120 | X3 | 128 | M | 156 | 146 | 274 | 276 | 278 | 293 | 294 | 292 |
| 121 | X4 | 129 | M | 156 | 146 | 274 | 276 | 278 | 293 | 294 | 292 |
| 122 | X5 | 127 | M | 156 | 146 | 274 | 276 | 278 | 293 | 294 | 292 |
| 123 | X6 | 128 | M | 156 | 146 | 274 | 276 | 278 | 293 | 294 | 292 |
| 124 | X7 | 129 | M | 156 | 146 | 274 | 276 | 278 | 293 | 294 | 292 |
| | | | | | | | | | | | |

CLASS CHARACTERISTICS CLASS SIZE=26 LOCATION=RURAL CLASS NUMBER=19

| STUDENT NAME X MOS | CHARACTERISTICS | | MATH | | SCIENCE | | SOC STUD | | READING | | LISTEN | | WRITING | | FLUENCY | | FLEX | | ORIG | | ELAB | | | |
|--------------------------|-----------------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|-----|----|
| | S | AGE | NON-VERB | | PRE POST | | | |
| | | | 10 | 96 | 259 | 265 | 273 | 296 | 269 | 278 | 277 | 292 | 268 | 290 | 271 | 276 | 43 | 34 | 11 | 17 | 28 | 21 | | |
| HA | M | 125 | 128 | 96 | 259 | 265 | 273 | 296 | 269 | 278 | 277 | 292 | 268 | 290 | 271 | 276 | 43 | 34 | 11 | 17 | 28 | 21 | | |
| HE | F | 124 | 130 | 138 | 109 | 263 | 263 | 270 | 270 | 271 | 276 | 268 | 282 | 278 | 280 | 295 | 280 | 46 | 46 | 29 | 33 | 50 | 53 | |
| HR | M | 126 | 120 | 127 | 127 | 258 | 265 | 269 | 296 | 273 | 271 | 299 | 283 | 284 | 290 | 278 | 282 | 30 | 43 | 17 | 17 | 44 | 47 | |
| CA | F | 128 | 110 | 112 | 120 | 267 | 258 | 258 | 259 | 259 | 259 | 266 | 276 | 274 | 276 | 277 | 279 | 39 | 34 | 31 | 32 | 32 | 36 | |
| CO | F | 126 | 110 | 121 | 121 | 251 | 261 | 260 | 266 | 262 | 269 | 270 | 280 | 282 | 273 | 280 | 293 | 291 | 27 | 31 | 46 | 51 | 51 | 56 |
| CP | F | 124 | 130 | 111 | 123 | 249 | 254 | 250 | 262 | 260 | 262 | 248 | 252 | 251 | 252 | 273 | 267 | 45 | 42 | 29 | 17 | 40 | 41 | |
| UI | M | 120 | 126 | 126 | 126 | 258 | 260 | 269 | 281 | 262 | 261 | 275 | 276 | 291 | 286 | 273 | 267 | 57 | 63 | 37 | 32 | 36 | 36 | |
| EZ | M | 130 | 122 | 127 | 127 | 242 | 237 | 263 | 271 | 271 | 271 | 292 | 274 | 274 | 275 | 275 | 262 | 20 | 20 | 14 | 12 | 30 | 25 | |
| F1 | M | 122 | 128 | 117 | 117 | 262 | 263 | 267 | 279 | 254 | 268 | 270 | 278 | 279 | 275 | 260 | 284 | 37 | 44 | 20 | 26 | 30 | 35 | |
| GA | F | 128 | 100 | 114 | 246 | 254 | 239 | 258 | 265 | 265 | 262 | 265 | 276 | 280 | 303 | 257 | 260 | 20 | 32 | 14 | 18 | 25 | 33 | |
| HA | M | 124 | 108 | 108 | 128 | 257 | 257 | 254 | 261 | 261 | 266 | 262 | 262 | 270 | 270 | 273 | 275 | 41 | 45 | 20 | 29 | 43 | 36 | |
| HB | M | 121 | 129 | 133 | 133 | 265 | 265 | 275 | 291 | 268 | 270 | 284 | 311 | 291 | 293 | 286 | 284 | 57 | 77 | 35 | 45 | 52 | 73 | |
| HE | F | 128 | 126 | 107 | 107 | 258 | 270 | 269 | 262 | 262 | 273 | 270 | 283 | 282 | 281 | 275 | 275 | 69 | 59 | 29 | 29 | 28 | 93 | |
| HI | M | 125 | 126 | 111 | 111 | 258 | 270 | 266 | 276 | 266 | 273 | 284 | 289 | 276 | 290 | 273 | 275 | 36 | 49 | 26 | 31 | 34 | 35 | |
| KE | F | 120 | 114 | 112 | 112 | 263 | 265 | 262 | 287 | 266 | 266 | 275 | 282 | 281 | 286 | 288 | 288 | 41 | 50 | 19 | 31 | 31 | 62 | |
| LO | F | 125 | 130 | 109 | 109 | 260 | 256 | 267 | 267 | 267 | 263 | 278 | 275 | 283 | 274 | 281 | 272 | 57 | 62 | 19 | 30 | 30 | 74 | |
| MC | M | 130 | 117 | 117 | 131 | 260 | 261 | 277 | 283 | 261 | 273 | 287 | 286 | 282 | 286 | 288 | 279 | 23 | 23 | 18 | 17 | 24 | 31 | |
| MI | F | 121 | 124 | 124 | 113 | 256 | 258 | 261 | 263 | 261 | 266 | 275 | 280 | 280 | 279 | 280 | 286 | 282 | 29 | 32 | 17 | 17 | 27 | 37 |
| MU | F | 121 | 117 | 117 | 113 | 256 | 258 | 261 | 263 | 261 | 266 | 275 | 280 | 284 | 284 | 290 | 295 | 43 | 45 | 19 | 31 | 34 | 33 | |
| PH | M | 129 | 128 | 128 | 121 | 274 | 269 | 269 | 296 | 284 | 281 | 284 | 281 | 284 | 290 | 290 | 295 | 291 | 29 | 32 | 33 | 34 | 34 | 34 |
| PO | F | 123 | 112 | 112 | 121 | 258 | 265 | 258 | 265 | 257 | 259 | 253 | 253 | 256 | 269 | 272 | 272 | 274 | 274 | 51 | 51 | 49 | 46 | |
| RU | F | 129 | 124 | 124 | 114 | 258 | 263 | 256 | 273 | 261 | 262 | 262 | 262 | 260 | 260 | 268 | 270 | 270 | 270 | 277 | 274 | 274 | 272 | |
| ST | F | 122 | 108 | 108 | 121 | 250 | 263 | 250 | 267 | 258 | 260 | 260 | 267 | 267 | 260 | 260 | 269 | 270 | 270 | 274 | 274 | 274 | 272 | |
| TU | M | 127 | 117 | 116 | 116 | 254 | 260 | 267 | 276 | 271 | 271 | 286 | 271 | 271 | 271 | 271 | 276 | 265 | 265 | 268 | 268 | 268 | 276 | |
| WJ | F | 122 | 117 | 109 | 257 | 258 | 262 | 267 | 262 | 267 | 254 | 259 | 259 | 259 | 259 | 271 | 271 | 271 | 271 | 271 | 271 | 271 | 276 | |

CLASS CHARACTERISTICS
GRADE=6 CLASS SIZE=25 LOCATION=URBAN CLASS NUMBER=20

| STUDENT CHARACTERISTICS | | IQ | | MATH | | SCIENCE | | SOC STUD | | READING | | LISTEN | | WRITING | | FLUENCY | | FLEX | | ORIG | | ELAU | | | | | |
|-------------------------|---|-----|----------|------|-------|---------|-------|----------|-------|---------|-------|--------|-------|---------|-------|---------|-------|------|-------|------|-------|------|-------|-----|-----|-----|----|
| S | E | AGE | NON-VERB | PRE | POSIT | PRE | POSIT | PRE | POSIT | PRE | POSIT | PRE | POSIT | PRE | POSIT | PRE | POSIT | PRE | POSIT | PRE | POSIT | PRE | POSIT | | | | |
| AM | M | 127 | 117 | 267 | 269 | 280 | 269 | 268 | 284 | 279 | 286 | 291 | 286 | 275 | 279 | 42 | 64 | 27 | 37 | 38 | 52 | 56 | 44 | | | | |
| BR | F | 134 | 127 | 257 | 270 | 264 | 276 | 273 | 284 | 287 | 276 | 282 | 279 | 286 | 286 | 59 | 62 | 37 | 43 | 47 | 49 | 94 | 75 | | | | |
| CA | M | 142 | 113 | 101 | 108 | 109 | 269 | 264 | 269 | 267 | 268 | 273 | 265 | 274 | 274 | 42 | 46 | 23 | 28 | 24 | 24 | 58 | 84 | | | | |
| CB | M | 138 | 118 | 127 | 125 | 272 | 276 | 277 | 291 | 281 | 292 | 296 | 289 | 288 | 284 | 50 | 37 | 32 | 31 | 40 | 22 | 68 | 107 | | | | |
| CH | H | 131 | 103 | 107 | 129 | 258 | 265 | 258 | 267 | 260 | 269 | 275 | 289 | 273 | 266 | 294 | 53 | 55 | 36 | 33 | 41 | 51 | 90 | 82 | | | |
| CO | F | 134 | 126 | 129 | 272 | 270 | 275 | 276 | 271 | 271 | 272 | 276 | 284 | 279 | 278 | 286 | 63 | 68 | 39 | 45 | 45 | 53 | 56 | 75 | | | |
| CR | F | 132 | 126 | 117 | 108 | 109 | 269 | 272 | 288 | 296 | 288 | 275 | 279 | 273 | 297 | 303 | 44 | 70 | 24 | 36 | 32 | 42 | 50 | 42 | | | |
| CU | F | 142 | 118 | 122 | 124 | 270 | 273 | 283 | 271 | 271 | 282 | 292 | 304 | 293 | 288 | 288 | 70 | 85 | 48 | 45 | 47 | 64 | 69 | 119 | | | |
| DA | H | 138 | 118 | 129 | 128 | 260 | 270 | 273 | 273 | 266 | 275 | 275 | 295 | 282 | 296 | 271 | 286 | 50 | 67 | 28 | 43 | 31 | 62 | 88 | 53 | | |
| DB | F | 140 | 129 | 129 | 129 | 254 | 256 | 273 | 264 | 268 | 271 | 266 | 286 | 271 | 296 | 294 | 63 | 81 | 43 | 44 | 46 | 73 | 65 | 03 | | | |
| GL | F | 137 | 123 | 93 | 120 | 121 | 263 | 276 | 275 | 279 | 275 | 275 | 265 | 272 | 311 | 280 | 303 | 290 | 279 | 31 | 33 | 21 | 21 | 26 | 30 | | |
| JO | F | 136 | 129 | 127 | 113 | 257 | 261 | 266 | 266 | 266 | 266 | 277 | 271 | 282 | 276 | 275 | 280 | 70 | 85 | 48 | 45 | 47 | 64 | 69 | 119 | | |
| KA | F | 129 | 127 | 127 | 113 | 128 | 129 | 269 | 270 | 273 | 273 | 275 | 281 | 282 | 298 | 309 | 306 | 291 | 291 | 47 | 69 | 43 | 31 | 62 | 88 | | |
| KE | F | 134 | 124 | 128 | 119 | 120 | 286 | 270 | 293 | 310 | 278 | 290 | 298 | 288 | 281 | 284 | 286 | 274 | 67 | 77 | 34 | 38 | 44 | 38 | 59 | 03 | |
| LO | F | 144 | 128 | 128 | 119 | 131 | 286 | 270 | 293 | 310 | 278 | 290 | 298 | 288 | 281 | 284 | 286 | 274 | 67 | 77 | 34 | 40 | 46 | 63 | 77 | 101 | |
| MU | F | 136 | 130 | 131 | 120 | 120 | 259 | 272 | 269 | 287 | 275 | 284 | 279 | 292 | 284 | 296 | 288 | 291 | 56 | 76 | 34 | 38 | 39 | 75 | 42 | 101 | |
| PR | H | 125 | 125 | 122 | 121 | 270 | 272 | 271 | 287 | 270 | 281 | 284 | 292 | 282 | 293 | 277 | 280 | 36 | 57 | 18 | 24 | 29 | 42 | 15 | 76 | | |
| RO | H | 135 | 122 | 122 | 123 | 267 | 267 | 260 | 276 | 276 | 273 | 262 | 290 | 295 | 282 | 276 | 286 | 63 | 73 | 37 | 43 | 25 | 45 | 65 | 32 | | |
| RP | F | 131 | 122 | 122 | 123 | 267 | 253 | 262 | 271 | 273 | 262 | 262 | 273 | 266 | 279 | 265 | 282 | 288 | 288 | 279 | 81 | 63 | 53 | 61 | 64 | 36 | |
| ST | F | 136 | 115 | 115 | 113 | 121 | 276 | 274 | 284 | 302 | 288 | 292 | 303 | 311 | 304 | 306 | 305 | 294 | 53 | 63 | 31 | 34 | 53 | 55 | 82 | 84 | |
| TR | H | 137 | 128 | 128 | 108 | 127 | 264 | 279 | 277 | 296 | 265 | 288 | 290 | 303 | 288 | 303 | 278 | 291 | 51 | 62 | 27 | 46 | 53 | 66 | 60 | 101 | |
| VA | H | 139 | 127 | 127 | 126 | 276 | 282 | 288 | 291 | 279 | 292 | 293 | 311 | 309 | 299 | 305 | 298 | 55 | 67 | 37 | 43 | 38 | 54 | 66 | 77 | | |
| WA | F | 139 | 127 | 107 | 111 | 278 | 270 | 266 | 302 | 271 | 284 | 287 | 278 | 291 | 282 | 282 | 292 | 299 | 303 | 21 | 30 | 37 | 51 | 61 | 58 | 66 | 96 |
| WH | F | 136 | 119 | 269 | 279 | 273 | 291 | 278 | 291 | 276 | 281 | 296 | 292 | 291 | 296 | 292 | 299 | 303 | 303 | 299 | 299 | 294 | 294 | 294 | 294 | 96 | |
| WI | F | 137 | 125 | | | | | | | | | | | | | | | | | | | | | | | | |

CLASS CHARACTERISTICS
GRADE 5 CLASS SIZE 28 LOCATION=URBAN CLASS NUMBER=21

| STUDENT CHARACTERISTICS | | IN | | MATH | | SCIENCE | | SOC STUD | | READING | | LISTEN | | WRITING | | FLUENCY | | FLEX | | ORIG | | ELAB | | |
|-------------------------|---|-----|---------------|------|------|---------|------|----------|------|---------|------|--------|------|---------|------|---------|------|------|------|------|------|------|------|-----|
| S | E | AGE | NON-VERB VERT | PRE | POST | PRE | POST | PRI | POST | PRE | POST | PRI | POST | PRE | POST | PRE | POST | PRE | POST | PRE | POST | PRE | POST | |
| AT | F | 121 | 108 | 126 | 259 | 264 | 269 | 273 | 253 | 268 | 274 | 282 | 264 | 276 | 275 | 288 | 97 | 87 | 41 | 46 | 70 | 68 | 29 | 55 |
| AZ | F | 122 | 132 | 121 | 260 | 267 | 271 | 271 | 266 | 271 | 269 | 284 | 293 | 280 | 288 | 90 | 84 | 45 | 75 | 68 | 102 | 108 | 139 | 108 |
| HR | F | 125 | 126 | 122 | 258 | 267 | 269 | 261 | 266 | 278 | 289 | 284 | 284 | 284 | 272 | 278 | 53 | 83 | 34 | 38 | 46 | 59 | 135 | 118 |
| HY | F | 121 | 127 | 134 | 267 | 265 | 279 | 271 | 273 | 271 | 289 | 282 | 284 | 291 | 278 | 269 | 75 | 43 | 33 | 42 | 55 | 82 | 95 | 97 |
| CH | F | 125 | 128 | 127 | 254 | 266 | 267 | 273 | 265 | 261 | 280 | 293 | 284 | 294 | 280 | 295 | 65 | 58 | 32 | 28 | 51 | 42 | 95 | 132 |
| CI | F | 124 | 126 | 118 | 256 | 266 | 266 | 277 | 265 | 269 | 283 | 284 | 290 | 291 | 284 | 291 | 45 | 73 | 29 | 34 | 41 | 49 | 76 | 61 |
| CL | F | 121 | 125 | 117 | 263 | 264 | 287 | 269 | 268 | 271 | 280 | 287 | 288 | 282 | 270 | 278 | 50 | 74 | 27 | 30 | 14 | 36 | 146 | 119 |
| DJ | M | 120 | 135 | 133 | 258 | 263 | 279 | 264 | 278 | 271 | 280 | 284 | 284 | 284 | 274 | 273 | 29 | 50 | 20 | 33 | 28 | 43 | 73 | 57 |
| DX | M | 125 | 135 | 127 | 266 | 272 | 271 | 271 | 271 | 269 | 292 | 290 | 293 | 288 | 275 | 288 | 63 | 88 | 32 | 37 | 49 | 62 | 84 | 99 |
| EA | M | 130 | 128 | 127 | 265 | 278 | 273 | 266 | 288 | 275 | 298 | 296 | 293 | 297 | 276 | 291 | 35 | 27 | 26 | 17 | 34 | 20 | 58 | 55 |
| GE | M | 122 | 132 | 130 | 264 | 272 | 279 | 277 | 281 | 281 | 292 | 293 | 284 | 294 | 284 | 295 | 60 | 57 | 36 | 41 | 58 | 52 | 74 | 57 |
| GU | M | 129 | 126 | 110 | 251 | 264 | 266 | 273 | 265 | 262 | 274 | 275 | 279 | 279 | 272 | 282 | 67 | 52 | 31 | 29 | 36 | 44 | 49 | 133 |
| HA | M | 122 | 122 | 134 | 266 | 278 | 264 | 273 | 269 | 266 | 283 | 290 | 293 | 297 | 291 | 291 | 67 | 50 | 44 | 34 | 42 | 37 | 124 | 119 |
| JO | M | 125 | 127 | 132 | 263 | 276 | 267 | 263 | 266 | 275 | 289 | 261 | 272 | 280 | 276 | 278 | 81 | 91 | 32 | 30 | 47 | 54 | 62 | 57 |
| LO | M | 127 | 119 | 102 | 253 | 264 | 249 | 261 | 269 | 258 | 253 | 284 | 276 | 280 | 278 | 286 | 65 | 49 | 39 | 26 | 57 | 42 | 67 | 72 |
| MJ | M | 128 | 121 | 101 | 260 | 265 | 271 | 275 | 261 | 266 | 280 | 277 | 286 | 288 | 284 | 299 | 65 | 29 | 46 | 39 | 50 | 50 | 80 | 94 |
| MJ | F | 130 | 124 | 119 | 267 | 266 | 276 | 271 | 259 | 269 | 298 | 279 | 290 | 291 | 276 | 280 | 93 | 79 | 35 | 26 | 79 | 57 | 75 | 75 |
| MU | M | 124 | 120 | 120 | 263 | 272 | 287 | 284 | 275 | 284 | 283 | 282 | 282 | 284 | 282 | 286 | 46 | 57 | 29 | 40 | 48 | 35 | 54 | 97 |
| NA | M | 132 | 126 | 123 | 264 | 269 | 276 | 288 | 273 | 275 | 286 | 290 | 303 | 301 | 275 | 291 | 47 | 37 | 30 | 27 | 36 | 17 | 82 | 80 |
| OL | F | 126 | 120 | 123 | 261 | 267 | 266 | 277 | 262 | 275 | 269 | 293 | 273 | 294 | 275 | 284 | 45 | 66 | 26 | 34 | 30 | 38 | 81 | 132 |
| SA | F | 118 | 135 | 122 | 265 | 270 | 302 | 280 | 288 | 281 | 289 | 296 | 290 | 297 | 284 | 291 | 67 | 63 | 42 | 35 | 48 | 46 | 80 | 94 |
| SP | M | 120 | 123 | 123 | 252 | 256 | 271 | 284 | 273 | 275 | 271 | 293 | 284 | 288 | 265 | 275 | 51 | 50 | 27 | 29 | 28 | 39 | 59 | 144 |
| T1 | F | 129 | 124 | 123 | 263 | 270 | 291 | 269 | 263 | 284 | 286 | 287 | 293 | 297 | 278 | 280 | 76 | 99 | 43 | 53 | 74 | 52 | 67 | 102 |
| TJ | F | 126 | 125 | 124 | 264 | 261 | 260 | 269 | 269 | 264 | 271 | 278 | 271 | 273 | 275 | 284 | 296 | 298 | 295 | 31 | 42 | 36 | 67 | 87 |
| YE | F | 124 | 127 | 119 | 256 | 267 | 263 | 262 | 257 | 257 | 280 | 293 | 282 | 280 | 280 | 286 | 55 | 51 | 36 | 34 | 33 | 36 | 113 | 103 |
| WF | F | 126 | 134 | 129 | 265 | 274 | 269 | 280 | 271 | 271 | 298 | 296 | 286 | 284 | 272 | 293 | 76 | 84 | 51 | 44 | 50 | 55 | 121 | 105 |
| WI | F | 123 | 136 | 126 | 265 | 266 | 276 | 280 | 262 | 271 | 292 | 284 | 293 | 297 | 286 | 295 | 90 | 91 | 54 | 49 | 70 | 68 | 124 | 96 |
| WJ | F | 123 | 133 | 124 | 265 | 263 | 273 | 275 | 273 | 275 | 283 | 284 | 275 | 279 | 278 | 288 | 32 | 39 | 28 | 30 | 36 | 38 | 59 | 59 |

CLASS CHARACTERISTICS
GRADE#3 CLASS SIZE#21 LOCATION:SURRAN CLASS NUMBER#22

| STUDENT CHARACTERISTICS | | | MATH | | | SCIENCE | | | SOC STUD | | | READING | | | LISTEN | | | WRITING | | | FLUENCY | | | FLEX | | | ORIG | | |
|-------------------------|---|-----|----------|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|------|
| S | E | AGE | NON-VERB | 10 | PRE POST | PRE POST | PRE POST | PRL POST | PRE POST | ELAB |
| CA | M | 128 | 121 | 115 | 267 | 272 | 273 | 297 | 271 | 275 | 283 | 287 | 290 | 309 | 288 | 286 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| CH | H | 129 | 129 | 121 | 269 | 269 | 203 | 273 | 273 | 271 | 295 | 290 | 286 | 284 | 286 | 286 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| EY | F | 117 | 122 | 125 | 256 | 269 | 279 | 275 | 271 | 275 | 286 | 293 | 279 | 291 | 274 | 291 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| F1 | M | 122 | 128 | 119 | 257 | 265 | 273 | 284 | 265 | 275 | 278 | 290 | 299 | 290 | 282 | 278 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| HO | F | 130 | 131 | 137 | 261 | 263 | 203 | 277 | 291 | 278 | 319 | 299 | 303 | 314 | 298 | 295 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| LA | F | 128 | 133 | 123 | 258 | 264 | 287 | 275 | 271 | 273 | 289 | 296 | 288 | 294 | 275 | 264 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| MI | H | 129 | 131 | 110 | 267 | 270 | 276 | 275 | 271 | 273 | 286 | 299 | 290 | 286 | 284 | 299 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| MU | H | 120 | 135 | 139 | 270 | 270 | 271 | 275 | 281 | 275 | 295 | 284 | 296 | 296 | 296 | 296 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| MP | F | 127 | 127 | 113 | 256 | 270 | 269 | 288 | 275 | 271 | 276 | 287 | 286 | 287 | 280 | 280 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| PR | F | 119 | 123 | 260 | 263 | 271 | 275 | 273 | 273 | 278 | 276 | 293 | 282 | 279 | 280 | 286 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| RE | H | 128 | 118 | 122 | 272 | 276 | 264 | 267 | 266 | 275 | 292 | 282 | 279 | 278 | 286 | 291 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| RF | F | 130 | 132 | 130 | 270 | 269 | 310 | 280 | 284 | 278 | 298 | 293 | 306 | 314 | 288 | 310 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| RO | F | 131 | 132 | 127 | 266 | 269 | 283 | 277 | 278 | 278 | 292 | 290 | 288 | 297 | 286 | 295 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| RY | H | 122 | 136 | 119 | 261 | 259 | 279 | 275 | 269 | 275 | 280 | 275 | 290 | 291 | 267 | 284 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SC | H | 127 | 130 | 131 | 258 | 263 | 283 | 284 | 296 | 284 | 283 | 284 | 293 | 293 | 284 | 299 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ST | F | 126 | 133 | 145 | 266 | 270 | 283 | 293 | 271 | 273 | 286 | 290 | 296 | 296 | 294 | 310 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SU | H | 129 | 131 | 134 | 264 | 274 | 287 | 271 | 271 | 269 | 278 | 268 | 288 | 294 | 278 | 286 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SX | H | 125 | 107 | 117 | 267 | 269 | 273 | 280 | 269 | 281 | 280 | 281 | 280 | 274 | 278 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| TI | H | 119 | 132 | 126 | 270 | 263 | 317 | 288 | 278 | 281 | 289 | 279 | 306 | 294 | 274 | 277 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| WI | F | 134 | 139 | 139 | 269 | 265 | 283 | 277 | 273 | 275 | 289 | 293 | 282 | 294 | 280 | 291 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |

CLASS CHARACTERISTICS
GRADE#6 CLASS SIZE#25 LOCATION=URBAN CLASS NUMBER#23

| STUDENT CHARACTERISTICS | | MATH | | SCIENCE | | SOC STUD | | READING | | LISTEN | | WRITING | | FLUENCY | | FLEX | | CRIG | | ELAB | |
|-------------------------|-----|------|-----|----------|------|----------|------|---------|------|--------|------|---------|------|---------|------|------|------|------|------|------|------|
| NAME | SEX | AGE | MOS | NON-VERB | VERB | PHE | POST | PHE | POST | PHE | POST | PHE | POST | PHE | POST | PHE | POST | PHE | POST | PHE | POST |
| HA | M | 139 | 126 | 128 | 136 | 272 | 266 | 271 | 275 | 275 | 278 | 298 | 293 | 290 | 291 | 274 | 282 | 286 | 291 | 291 | 291 |
| HC | M | 137 | 128 | 130 | 150 | 267 | 270 | 279 | 277 | 271 | 273 | 289 | 279 | 284 | 281 | 274 | 288 | 286 | 291 | 291 | 291 |
| HU | M | 136 | 135 | 131 | 140 | 274 | 262 | 273 | 277 | 296 | 278 | 292 | 282 | 303 | 296 | 299 | 309 | 291 | 310 | 310 | 310 |
| CL | F | 141 | 131 | 136 | 125 | 267 | 276 | 279 | 280 | 287 | 284 | 289 | 290 | 282 | 297 | 282 | 297 | 281 | 295 | 295 | 295 |
| UA | F | 138 | 130 | 149 | 168 | 272 | 269 | 287 | 275 | 292 | 281 | 298 | 287 | 303 | 294 | 287 | 303 | 294 | 295 | 295 | 295 |
| DR | H | 130 | 149 | 142 | 122 | 270 | 278 | 287 | 288 | 288 | 273 | 288 | 273 | 303 | 290 | 290 | 288 | 288 | 282 | 282 | 282 |
| HA | F | 137 | 142 | 138 | 138 | 272 | 274 | 283 | 277 | 269 | 278 | 268 | 278 | 307 | 303 | 306 | 309 | 288 | 288 | 288 | 288 |
| HY | F | 137 | 138 | 130 | 140 | 272 | 270 | 279 | 277 | 271 | 268 | 295 | 299 | 288 | 288 | 288 | 288 | 288 | 291 | 291 | 291 |
| LY | H | 135 | 135 | 142 | 146 | 279 | 282 | 302 | 280 | 278 | 284 | 278 | 281 | 274 | 296 | 296 | 282 | 270 | 286 | 286 | 286 |
| HA | H | 142 | 135 | 146 | 146 | 267 | 270 | 266 | 264 | 273 | 263 | 292 | 293 | 295 | 293 | 306 | 294 | 279 | 295 | 295 | 295 |
| MB | H | 120 | 149 | 158 | 130 | 274 | 265 | 273 | 275 | 275 | 273 | 286 | 277 | 273 | 295 | 299 | 288 | 288 | 288 | 288 | 288 |
| DA | F | 135 | 136 | 117 | 162 | 282 | 286 | 117 | 293 | 281 | 278 | 307 | 293 | 296 | 296 | 291 | 291 | 305 | 291 | 305 | 305 |
| PA | H | 139 | 131 | 125 | 265 | 293 | 279 | 279 | 275 | 273 | 288 | 298 | 293 | 306 | 294 | 282 | 282 | 282 | 286 | 286 | 286 |
| PB | H | 138 | 135 | 135 | 135 | 274 | 266 | 283 | 280 | 288 | 281 | 298 | 293 | 279 | 288 | 294 | 276 | 280 | 276 | 280 | 280 |
| PC | H | 135 | 135 | 120 | 120 | 258 | 267 | 273 | 266 | 269 | 269 | 282 | 282 | 277 | 296 | 297 | 276 | 284 | 270 | 270 | 270 |
| PH | F | 139 | 148 | 129 | 276 | 270 | 291 | 264 | 296 | 284 | 296 | 311 | 293 | 303 | 304 | 291 | 315 | 315 | 315 | 315 | 315 |
| KE | F | 140 | 147 | 164 | 274 | 276 | 287 | 285 | 278 | 281 | 295 | 277 | 295 | 277 | 290 | 282 | 282 | 277 | 277 | 277 | 277 |
| RO | H | 133 | 149 | 149 | 149 | 276 | 282 | 317 | 277 | 289 | 281 | 296 | 296 | 282 | 297 | 297 | 291 | 296 | 296 | 296 | 296 |
| SH | H | 134 | 107 | 265 | 267 | 296 | 286 | 281 | 281 | 281 | 281 | 298 | 299 | 296 | 297 | 296 | 297 | 296 | 297 | 296 | 297 |
| WA | H | 141 | 148 | 146 | 272 | 276 | 279 | 273 | 281 | 271 | 295 | 295 | 291 | 279 | 279 | 279 | 279 | 279 | 279 | 279 | 279 |
| WE | H | 134 | 132 | 276 | 278 | 276 | 284 | 275 | 288 | 275 | 288 | 278 | 278 | 277 | 275 | 291 | 276 | 256 | 276 | 256 | 256 |
| WI | J | 115 | 269 | 272 | 264 | 277 | 280 | 283 | 269 | 284 | 281 | 287 | 288 | 307 | 290 | 311 | 294 | 286 | 291 | 294 | 294 |
| | | | | | | | | | | | | | | | | | | | | | |